Wilcox Oil Company Superfund Site

Trip Report

November 30, 2015 through December 16, 2015

Prepared for

The Environmental Protection Agency/Environmental Response Team

June 2, 2016

Document Number: SERAS0277-DTR-060216

Lockheed Martin SERAS
2890 Woodbridge Avenue
Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

500022770

014713

Table of Contents

TITLE PAGE **1**

ACRONYMS AND ABBREVIATIONS **4**

TRIP REPORT - SERAS0277-DTR-060216 **5**

BACKGROUND 5

PURPOSE 7

ROST SAMPLING STRATEGY 9

SITE ACTIVITIES 12

RESULTS 15

GENERAL OBSERVATIONS 18

DATA GAPS 24

REFERENCES 25

APPENDICES 25

APPENDIX A **28**

SECTION 01 - WILCOX REFINERY PROPERTY OVERVIEW 29

SHEET 01A - WILCOX OVERVIEW *31*

SHEET 01B - WILCOX OVERVIEW *32*

SECTION 02 - WILCOX TANK 11 33

SHEET 02A - WILCOX TANK 11 *35*

SHEET 02B - WILCOX TANK 11 *36*

SECTION 03 - WILCOX PONDS 1 and 2 37

SHEET 03 - WILCOX PONDS 1 and 2 *38*

SECTION 04 - WILCOX TANK 12 39

SHEET 04A - WILCOX TANK 12 *42*

SHEET 04B - WILCOX TANK 12 *43*

SHEET 04C - WILCOX TANK 12 *44*

SECTION 05 - WILCOX TANK 34 35 36 37 45

SHEET 05 - WILCOX TANKS 34 35 36 and 37 *48*

SECTION 06 - WILCOX LOWER PROCESS AREA 49

SHEET 06A - WILCOX LOWER PROCESS AREA *52*

SHEET 06B - WILCOX LOWER PROCESS AREA *53*

SECTION 07 - WILCOX UPPER PROCESS AREA 54

SHEET 07A - WILCOX UPPER PROCESS AREA *57*

SHEET 07B - WILCOX UPPER PROCESS AREA *58*

SECTION 08 - WILCOX PRODUCT STORAGE AREA 59

SHEET 08A - WILCOX PRODUCT STORAGE AREA *62*

SHEET 08B - WILCOX PRODUCT STORAGE AREA *63*

SHEET 08C - WILCOX PRODUCT STORAGE AREA *64*

SHEET 08D - WILCOX PRODUCT STORAGE AREA *65*

SHEET 08E - WILCOX PRODUCT STORAGE AREA *66*

SHEET 08F - WILCOX PRODUCT STORAGE AREA *67*

SHEET 08G - WILCOX PRODUCT STORAGE AREA *68*

SECTION 09 - TANK FARM TANK 3 69

SHEET 09 - TANK FARM TANK 3 *71*

SECTION 10 - TANK FARM TANK 5 72
SHEET 10 - TANK FARM TANK 5 *74*
SECTION 11 - TANK FARM TANK 6 75
SHEET 11 - TANK FARM TANK 6 *77*
SECTION 12 - TANK FARM TANK 7 78
SHEET 12 - TANK FARM TANK 7 *80*
SECTION 13 - TANK FARM TANK 8 81
SHEET 13 - TANK FARM TANK 8 *83*
SECTION 14 - TANK FARM TANK 9 84
SHEET 14 - TANK FARM TANK 9 *85*
SECTION 15 - TANK FARM TANK AREA 10 86
SHEET 15 - TANK FARM TANK AREA 10 *88*
SECTION 16 - TANK FARM POND 3 89
SHEET 16 - TANK FARM POND 3 *91*
SECTION 17 - TANK FARM POND 4 92
SHEET 17 - TANK FARM POND 4 *94*
SECTION 18 - TANK FARM TANK 13 95
SECTION 19 - LORRAINE REFINERY 96
SHEET 19A - LORRAINE REFINERY *101*
SHEET 19B - LORRAINE REFINERY *102*
SHEET 19C1 - LORRAINE REFINERY *103*
SHEET 19C2 - LORRAINE REFINERY *104*
SHEET 19D - LORRAINE REFINERY *105*
SHEET 19E - LORRAINE REFINERY *106*
SECTION 20 - SWEETENING PROCESS AREA 107
SHEET 20 - WILCOX GAS SWEETENING AREA *110*

ACRONYMS AND ABBREVIATIONS

%RE	Percent Relative Emittance
2-D	Two Dimensional
3-D	Three Dimensional
ASTs	Aboveground Storage Tanks
AZ	Arizona
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzenes and Xylenes
CLP	Contract Laboratory Program
CPT	Cone Penetrometer Technology
CRQL	Contract Required Quantitation Limit
DL	Detection Limit
DPT	Direct Push Technology
DRO	Diesel Range Organics
EM	Electromagnetic
EPA	Environmental Protection Agency
ERT	Environmental Response Team
ESI	Expanded Site Inspection
EVS	Environmental Visualization System
ft	Feet
GPR	Ground Penetrating Radar
GPS	Global Positioning System
GRO	Gasoline Range Organics
kW	Kilowatt
lb	Pound
LIF	Laser Induced Fluorescence
LM	Lockheed Martin
LNAPL	Light Non-Aqueous Phase Liquid
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
mg/kg	Milligram per Kilogram
Na	Sodium
NaOH	Sodium Hydroxide
NAPLs	Non-Aqueous Phase Liquids
NJ	New Jersey
NORM	Naturally Occuring Radioactive Material
NPL	National Priorities List
ODEQ	Oklahoma Department of Environmental Quality
OK	Oklahoma
ORO	Oil Range Organics
PA	Preliminary Assessment
PAHs	Polycyclic Aromatic Hydrocarbons
Pb	Lead
PID	Photoionization Detector
ppm	Parts per million
PVC	Polyvinyl Chloride
RI	Remedial Investigation
ROST	Rapid Optical Screening Tool
SERAS	Scientific Engineering Response and Analytical Services
SI	Site Inspection
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TEL	Tetraethyl Lead
TL	Task Leader
TPH	Total Petroleum Hydrocarbons
TX	Texas
ug/L	Micrograms per Liter
VOCs	Volatile Organic Compounds
WAM	Work Assignment Manager
XRF	X-Ray Flourescence

Lockheed Martin SERAS
2890 Woodbridge Avenue
Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

DATE: June 2, 2016

TO: Tom Kady, EPA/ERT Work Assignment Manager

FROM: Jon McBurney, Project Engineer/Task Leader

THROUGH: Rick Leuser, SERAS Deputy Program Manager

SUBJECT: **TRIP REPORT: November 30 through December 16, 2015**
Wilcox Oil Company Superfund Site
Work Assignment No. SERAS-277

BACKGROUND

The Wilcox Oil Company Superfund Site (Site) is an abandoned and largely demolished oil refinery and associated tank farm located north of Bristow, Creek County, Oklahoma (OK). The geographic coordinates of the Site are approximately 35°50'31" North latitude and 96°23'02" West longitude. Multiple sampling events have been conducted by the OK Department of Environmental Quality (ODEQ) and the Environmental Protection Agency (EPA) including Preliminary Assessments (PA), Site Inspections (SI), and Expanded Site Inspections (ESI). On May 24, 2013, EPA proposed the Wilcox Oil Company site to the National Priorities List (NPL), a.k.a Superfund Sites, list. On December 12, 2013, The Wilcox Oil Company site officially became a Superfund Site (EPA ID# OK0001010917), when it was added to the NPL.

A detailed title search in the Creek County Clerk office confirms that the property was used in oil refinery operations from approximately 1915 until November 1963. The former Lorraine refinery, including associated tank farm, operated under numerous companies from approximately 1915 to 1937 when the property was sold to Wilcox Oil and Gas Company. Wilcox Oil and Gas Company purchased refinery operations on the remaining acres east of the railroad tracks and operated as a crude oil refinery from the 1920s until the property was sold on 1 November 1963. The site encompasses approximately 140 to 150 acres.

The site is flanked by Route 66 to the west; a residential area and Turner Turnpike to the northwest and north; Sand Creek to the southwest; and residential, agricultural, and wooded areas to the east and south. The topography in the vicinity of the site slopes to the south. Two intermittent streams drain the eastern and western portions of the site that flow south into Sand Creek.

The Site can be divided into five major former operational areas: the Wilcox Refinery, the Lorraine Refinery, the North Tank Farm, the East Tank Farm, and the Loading Dock area (See Figure 1.)

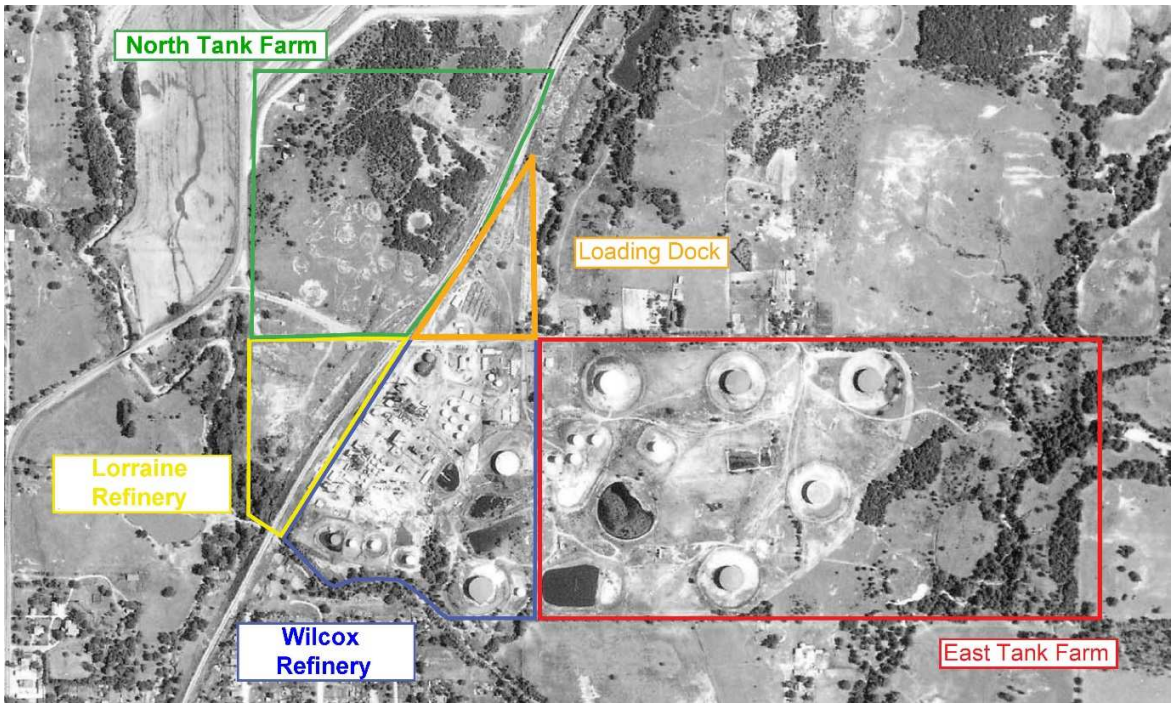


Figure 1. Site Map – Operational Areas Shown on 1956 Aerial Photograph

- The former Wilcox Refinery area is fenced and covers approximately 26 acres. Most of the equipment and storage tanks that remained on-site in 1963 were auctioned and have been salvaged for scrap iron by private land owners, and what remains is in ruins. Four aboveground storage tanks (ASTs) (12,500 gallons each) remain standing, in addition to a number of buildings, discarded drums and pieces of scrap iron and piping. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. A building in the northern part of the former refinery has been converted to a residence. An intermittent creek flows southward across the eastern portion of the refinery area through a small pond in the southeast corner of the refinery area and into Sand Creek.

- The former Lorraine Refinery area covers approximately 8 acres and includes the southwestern portion of the Site, south of Refinery Road and west of the railroad. No refinery structures remain in the processing area. The First Assembly of God Church, a playground, and one residence are located here.

- The East Tank Farm was a large crude oil storage area/tank farm covering approximately 80 acres and contains pits, ponds, and a number of circular berms that surrounded tank locations. All of the tanks have been cut down and removed; however, remnants of the tank locations remain and are visible. Many of the berms surrounding the pits, ponds, and former tanks have been cut or leveled. An intermittent creek is located in the eastern portion of the tank farm and flows south to Sand Creek. A pumping or gas compressor station exists in the north-central portion of the Site, and an active pipeline crosses from northwest to southeast across the middle of the Site. There are four residences located on top of or directly next to former tank locations. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature.

- The North Tank Farm was a crude and fuel oil storage area consisting of approximately 20 acres. No refinery structures remain in the North Tank Farm, and all tanks have been cut down and removed. Remnants of the tank locations are not visible, and historic locations are difficult to pinpoint. One residence is located in this area.

- The Loading Dock area is approximately 7 acres and was used for loading and unloading product by rail. Just a few refinery structures/supports remain and are generally located parallel to the existing rail lines. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature.

Operations

A skimming and cracking plant was constructed in 1929. The facility had an operating capacity of 4,000 barrels of crude oil per day. The main components of the system consisted of a skimming plant, cracking unit, and re-distillation battery with a vapor recovery system and continuous treating equipment. The crude oil was brought directly from the field, eliminating storage and handling facilities, but resulting in crude oil with high sediment and water.

Sanborn fire insurance maps can be used to understand historical property usage. The Wilcox Oil and Gas Company and Lorraine Refining Company Sanborn Insurance Maps indicate that the combined properties contained approximately 80 storage tanks of various sizes, a cooling pond, and approximately 10 buildings housing refinery operations. The maps also indicate that crude oil, fuel oil, gas oil, distillate, kerosene, naptha, and benzene (petroleum ether) were all stored on the property.

After the refinery operations ceased and most of the tanks and buildings were demolished and sold for scrap, the property was sold to private interests. Beginning in 1975 with the construction of the church, private residences were constructed on 6 parcels of land that were part of the former refinery operations; the most recent being constructed in 2003/2004. One former building associated with the refinery was repurposed as a residence. As a result, there is a total of seven residences on the Site, all of which are located on former tank or refinery operations locations. Three of the residences located on the eastern portion of the Site are known to use water from domestic/private wells. Sampling of the wells by ODEQ show that there are no contaminants in the water above drinking water standards.

The refinery waste source areas of interest include a backfilled oily waste pond and pit, a breached settling pond, a former pond apparently backfilled with solid refinery waste, and a number of former tank storage areas. The contaminants of concern are metals and polycyclic aromatic hydrocarbon (PAH) compounds. These potential contaminants of concern are found in soil, sediment, and waste material.

PURPOSE

The purpose of this project was to assist the EPA Environmental Response Team (ERT) and EPA Region 6 to perform a direct sensing investigation to qualitatively address the nature and extent of contamination. This will enable Region 6 to develop a focused remedial investigation (RI) by utilizing the results to design a targeted delineation study, minimizing extraneous sampling, and optimizing sampling locations for a definitive horizontal and vertical delineation. Direct sensing tools were chosen to quickly evaluate the impacts that the residual contamination may pose to Sand Creek and the residents of the area. The direct sensing tools selected were geophysics (ground penetrating radar [GPR] and Electromagnetic [EM-31]), rapid optical screening tool (ROST), cone penetrometer technology (CPT), X-Ray Fluorescence (XRF), and use of a photoionization detector (PID). These tools were selected in conjunction with conventional tools such as core sampling and laboratory analysis, temporary well points, and test pits.

The goals for the investigation were:

Geophysics

- Clear the site for subsurface utilities and structures including the active Williams pipeline.
- Attempt to determine signature for petroleum sludge flows and then use this signature to locate additional areas of interest.
- Utilize GPR to determine the depth of bedrock across the site to determine the applicability of CPT and ROST, and develop a bedrock contour map.

Test Pitting

- Verify GPR data.
- Provide a visual inspection of the subsurface lithology.

CPT/ROST

- Locate and delineate possible presence of light non-aqueous phase liquids (LNAPLs).
- Tank Farm
    - Investigate historic tank bermed areas to determine if residual contamination exists.
    - Determine the variety of waste streams found in the tank farm area.
    - Determine if there is exposure or risk to properties from residual contamination in the tank farm area.
    - Delineate the depth and horizontal extent of residual contamination at each tank location.
    - Delineate the depth and horizontal extent of residual contamination at locations of historic ponds.
    - Determine if residual contamination has the possibility of impacting Sand Creek or its tributaries.
    - Determine the subsurface lithology to identify preferential pathways for contamination.
- Lorraine Refinery
    - Determine the vertical and horizontal extent of residual contamination at the site.
    - Determine if residual contamination could be impacting tributaries to Sand Creek.
    - Determine the variety of residual wastes found at the site.
    - Determine the subsurface lithology to identify preferential pathways for contamination.
- Wilcox Refinery
    - Determine the vertical and horizontal extent of residual contamination in operational areas of the Wilcox Refinery based on Sanborn maps and historic photographs.
    - Determine if residual contamination could be impacting Sand Creek or its tributaries.
    - Determine the subsurface lithology to identify preferential pathways for contamination.

XRF

- Determine the presence of heavy metals associated with refinery products with emphasis on the presence of lead (Pb), indicating the possible use of tetraethyl lead (TEL).
- Screen for the presence of other metals that could impact Sand Creek or its tributaries.

Geoprobe™

- Using traditional coring techniques, verify geophysical and CPT data regarding the lithology at the site.
- Collect representative samples in areas of interest determined by ROST to compare with laboratory analytical data.

- Install and sample temporary well points to sample groundwater at the site in areas where impact to Sand Creek is suspected.
- Field screen cores using a PID to compare with ROST data.
- Verify depth to bedrock.

Geophysics, CPT/ROST, and XRF technologies were chosen for this investigation for their ability to collect significant amounts of data in a relatively short amount of time, with minimal disturbance to the subsurface. Each technique produces real-time data without the delays of laboratory analysis. Using these techniques, investigators can target investigations based on collected data on a day to day basis.

The ROST utilizes laser induced fluorescence (LIF) technology to introduce a laser into the subsurface. The laser excites hydrocarbon compounds, causing them to fluoresce. This fluorescence is then measured as a percent relative emittance (%RE), based on a reference oil used to calibrate the ROST to "100%". Different compounds and mixtures of compounds fluoresce differently. The ROST uses four wavelengths of fluoresced light along with intensity to provide a signature waveform for each mixture of hydrocarbon compounds. This waveform can be used to identify similar compound mixtures or mixtures which fluoresce in similar ways. This process can be used to identify areas impacted by different contaminants or multiple contaminant streams. A guide to understanding the ROST process is given as Appendix I – Understanding ROST Guide (Fugro Consultants, Inc., Houston, Texas [TX], undated). (This document was prepared by Fugro for a separate project and is included here for reference only.)

XRF technology is used to measure the concentrations of metals in soils either *in-situ* or in a laboratory setting. This technology uses an x-ray source to cause metals to fluoresce. This fluorescence is then detected by the XRF and resolved into concentrations of metals in the soil sample.

ROST SAMPLING STRATEGY

Prior to mobilization to the site, sample locations for CPT/ROST activities were chosen by the Lockheed Martin (LM) Scientific Engineering Response and Analytical Services (SERAS) Task Leader (TL) and the EPA/ERT Work Assignment Managers (WAMs), T. Kady and G. Prince. Locations were chosen based on information obtained from Sanborn insurance maps (Appendix G) and aerial photographs from 1941 and 1956 provided by EPA Region 6.

Geoprobe™ direct push technology (DPT) sampling was chosen for the confirmation of CPT lithology and sampling of areas that the ROST indicated as containing residual contamination. DPT was chosen to investigate areas of shallow bedrock in the tank farm area as noted by visual observation of bedrock outcrops as well as geophysical results from the initial geophysical investigation due to the difficulty of collecting CPT data in shallow overburden areas. Each core collected by DPT methodology was screened with a PID to verify the ROST results and to determine if light hydrocarbon compounds that the ROST could not detect were present. XRF was used to screen each core for the presence of metals including Pb.

The sampling locations were targeted at areas most likely to have been impacted by refinery activities. The site was separated into distinct areas defined by usage or location. Three sections were chosen for this field investigation, including the Lorraine Refinery to the west, the Wilcox Refinery Area, and the Tank Farm Area, see Figure 1. The Loading dock area and the North Tank Farm were to be investigated if time permitted.

Tank Farm

For the Tank Farm Area, sample locations were targeted at each known historic tank location and historic pond. The tanks were clearly visible on the 1956 aerial photograph as well as the 1961 Sanborn map. Using the center of each tank as well as the visual indication of ponded water within each bermed area, a sampling strategy was determined for each tank. Locations started at the center of the tank, followed by four locations within the footprint of the tank. Five additional locations were chosen in what was determined to be topographically down-gradient of the tank. The sampling strategy is shown in Figure 2.

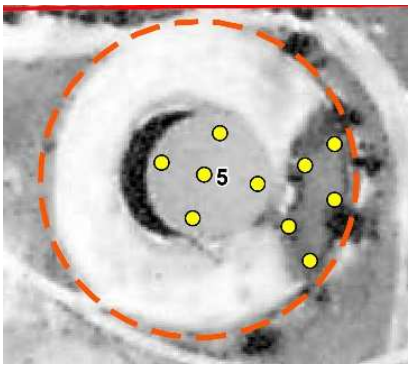


Figure 2. Tank Sampling Strategy
Shown on 1956 aerial photograph.

This pattern was utilized for all tank areas investigated, with the exception of Tank Area 10. From the aerial photographs, it appears this area was intended for use as a tank pad; however, it was apparently repurposed, as a separation pond or waste storage area. The pond is shown in Figure 3. From anecdotal reports, equipment driven into the center area of this "pond" in its current state have sunken into a tar like material. For this reason, minimal sample locations were planned inside the pond. Five locations were chosen downgradient of the pond to investigate if there was impact to the surroundings from the residual material. A current photograph of the area clearly shows a black stained area to the southwest of this pond (See Figure 4.)

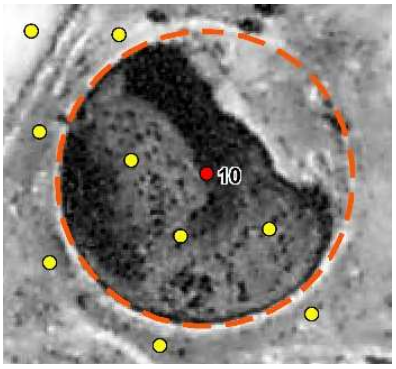


Figure 3. Tank Area 10
From the 1956 aerial photograph.

Two other historic ponds were investigated in the Tank Farm Area, Ponds 3 and 4. Pond 3, in the southwest corner of the Tank Farm was sampled in a strategy similar to Tank Area 10, with downgradient locations surrounding the pond and several locations within the historic boundaries. Pond 4, like Tank Area 10, had reports of a tarry material into which heavy equipment had gotten stuck. This pond is also enclosed by a chain link fence, based on results from previous investigations. Sample locations were chosen around this area to determine if further impact was occurring.

Several other areas were targeted for sampling if time permitted, including Tank 13, and around a cluster of smaller tanks. All planned Tank Farm sample locations are shown on Figure 5.

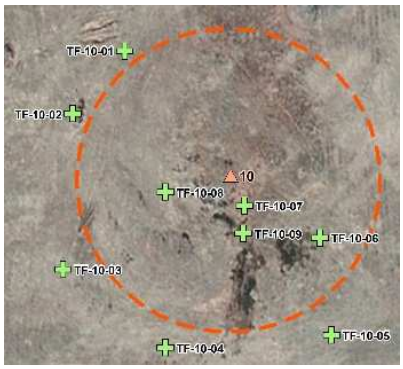


Figure 4. Tank Area 10
Showing black staining and actual sample locations.

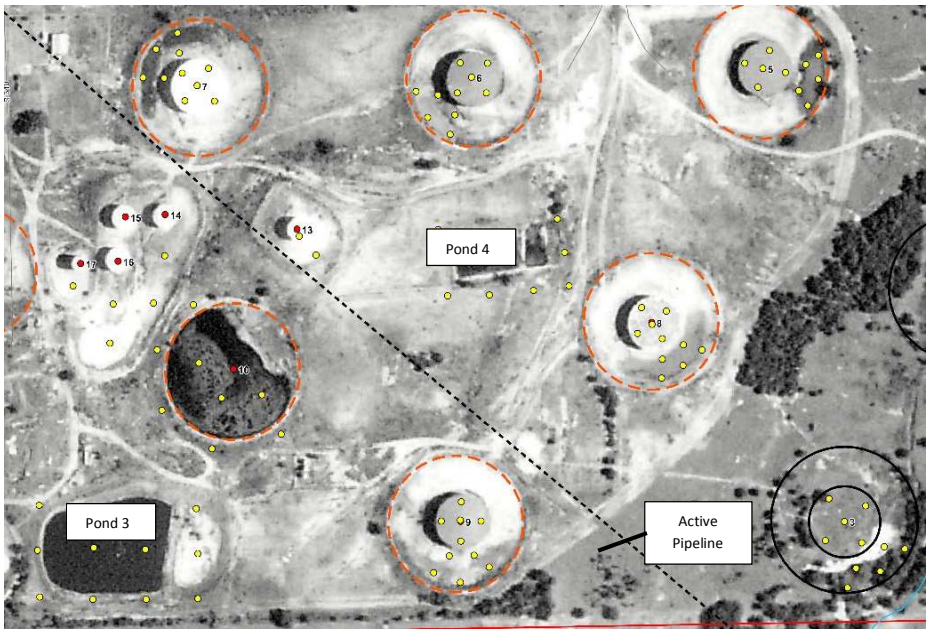


Figure 5. Tank Area Sampling Plan
Shown on the 1956 aerial photograph.

Lorraine Refinery

Sampling at the Lorraine Refinery was planned using a grid approach because product storage, processing and raw material storage were spread over the entire site. If time permitted, further sampling was planned based on the results of the grid approach. The planned locations are shown on Figure 6. The 1923 Sanborn Map of the facility is shown as Figure 7.

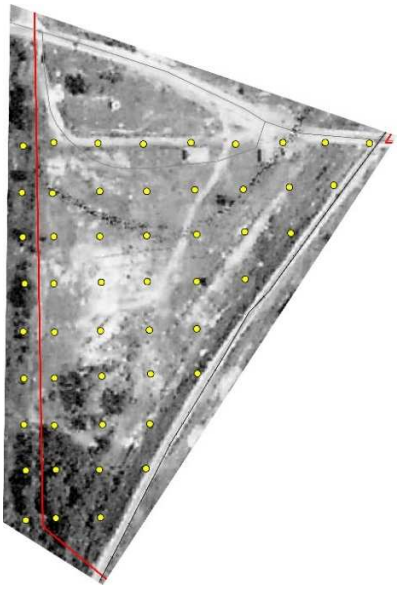


Figure 6. Lorraine Sampling Plan
Shown on the 1956 aerial photograph.

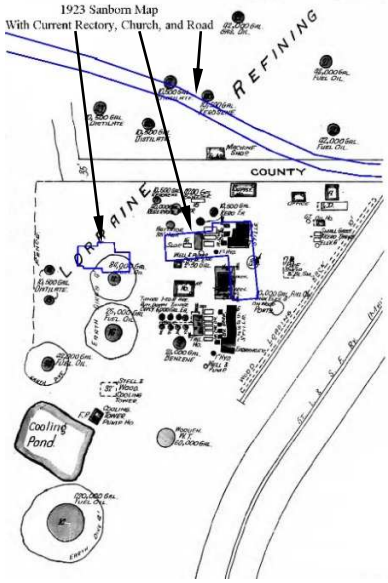


Figure 7. 1923 Sanborn Map
Lorraine Refinery.

Wilcox Refinery

The sampling plan was created by utilizing both the aerial photograph from 1956 and the Sanborn maps of 1923 (Figure 7) and 1961 (Figure 9). Previous geophysical site activities performed by SERAS personnel had cleared significant portions of the Wilcox Refinery Site. Significant areas of debris, ruins and vegetation precluded sampling in many areas. These factors, in conjunction with the aerials and maps, yielded the sampling strategy as shown on Figure 8. The sampling design strategy for the two 55,000 barrel tanks, Tanks 11 and 12, was identical to the Tank Farm sampling strategy. Other areas of interest, including the process areas to the northwest, the tanks to the south, and the tank cluster to the north were targeted for investigation.

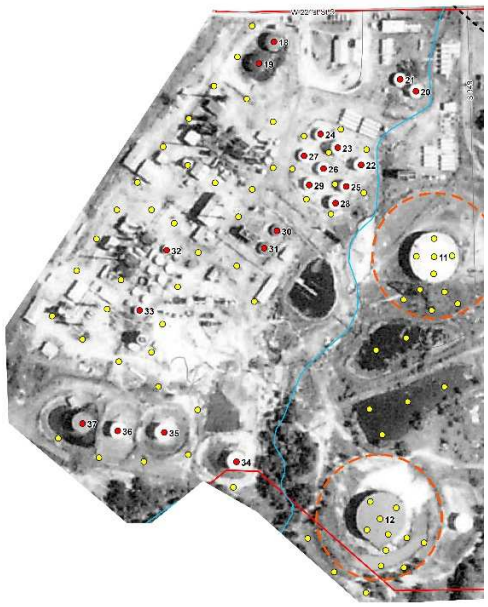


Figure 8. Wilcox Sampling Plan
Shown on the 1956 aerial photograph.

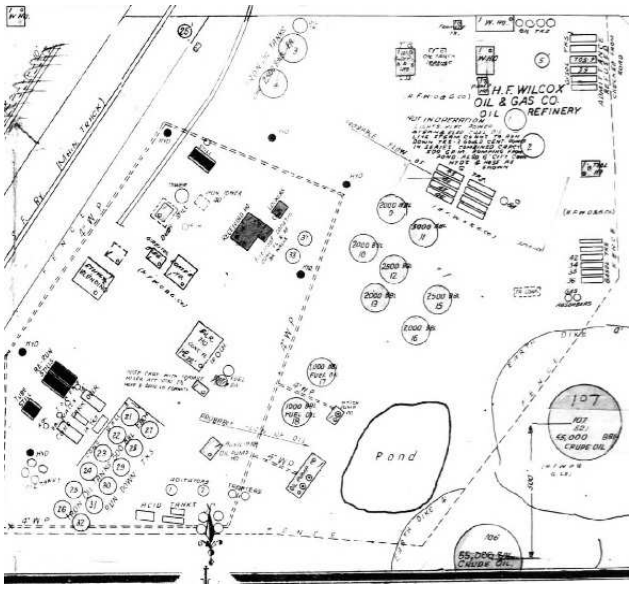


Figure 9. 1961 Sanborn Map
Wilcox Refinery.

SITE ACTIVITIES

In September, 2015, SERAS personnel along with their subcontractors performed a geophysical survey at the site. The survey included a significant amount of site clearing of vegetation and overgrowth, as well as the physical locating of site features based on historic aerial photographs and Global Positioning System (GPS) coordinates, prior to employing the geophysical equipment. Survey data were collected from areas of interest as determined from historic aerial photographs and Sanborn maps using both GPR and EM-31. Data were post-processed on site for review and plots of EM-31 in-phase and conductivity data were created in real time. Test pits were dug at eleven locations to ground truth the geophysical data and to visually inspect the subsurface lithology. These test pits were dug to ten feet depth or shallower, if refusal was encountered. All test pits were logged and the GPS locations recorded by the ERT Geologist.

On November 30, 2015 personnel from the LM SERAS contract and their subcontractors mobilized to OK to prepare for site activities. On the following morning, all personnel mobilized to the site to begin the ROST investigation. SERAS personnel included J. McBurney (Task Leader), L. Wright (XRF Field Chemist) and C. French (Environmental Technician). Also on site were V. Piazza (Geologist, AMO Environmental Service) and A. Wagner (Environmental Technician, Dycon Government Solutions, Inc.) as subcontractors to SERAS. SERAS subcontracted

Fugro Consultants, Inc of Houston, TX to provide the ROST services. Fugro supplied two ROST rigs, a truck-mounted rig and a track-mounted setup. Jet Drilling of Tulsa, OK was contracted by SERAS to provide Geoprobe™ DPT sampling and temporary well point installation. Utility locating services were subcontracted to Encompasse Inspections from Waddell, Arizona (AZ). Data visualization services, utilizing C-Tech's Environmental Visualization System (EVS Pro) software, were subcontracted to S2C2, Inc. from Raritan, New Jersey (NJ).

Equipment rented for the investigation included an 18,500 pound (lb.) mini excavator, a skid steer front end loader with brush hog, two four-wheel drive utility vehicles, and an office trailer with 56 kilowatt (kW) diesel generator. A box truck was rented as a portable laboratory for the XRF field activities.

Each day, locations were marked for investigation. Each location was reviewed with the utility locator to determine the need for utility investigation in addition to the mark-outs provided by the OKIE811 dig-safe program. Both ROST rigs, as well as the Geoprobe™ DPT crew were tasked with a specific area for investigation. After each location was determined to be free from utilities or underground piping, advancement of soil borings began.

All ROST locations were attempted twice if refusal was shallower than 3 feet (ft) below ground surface (bgs.) by moving the ROST rig between 1 and 3 ft away and retrying.

Truck-Mounted CPT/ROST Activities

The truck rig began on the Lorraine Refinery property where all holes located on asphalt were completed. During this period, both CPT and ROST data were collected. It was determined from several of the initial locations that contamination was indicated at or near the refusal depth. The configuration of the CPT/ROST is such that the CPT cone and sleeve occupy the first 12 to 15 inches of the tool string driven into the ground. The ROST window is therefore approximately 18 inches from the tip of the tool string. It was determined that Fugro had the capability to remove the CPT portion of the tool string and drive the ROST window to within approximately 6 inches of the refusal depth. At the same time, the presence of dense clays caused the CPT tooling to reach its maximum allowable tip pressure. With the removal of the CPT instrumentation, the ROST probe could be driven deeper with a higher pressure. A decision was made by the project team to discontinue the use of CPT to yield better ROST data at depth. The investigation continued with locations in the grassy area in the northeast corner of the Lorraine Refinery. It was determined that due to recent rains, some grassy areas were exceedingly soft and would not support the weight of the truck rig. The rig was then moved to higher ground on the Lorraine property and investigations continued.

At the completion of the accessible Lorraine locations, the truck rig was mobilized to the Wilcox Refinery property. Portions of the sampling locations on the Wilcox property were planned along existing access roads. The truck rig was able to access these locations. Refusal at these locations within the first 1-to 2-ft bgs was common. A decision was made to clear each location to a depth of approximately two feet using the mini-excavator. Many buried pipes were encountered during the construction of these mini-test pits. After discussion and further investigation, it was determined that all of the pipes located were not active and work continued.

The truck rig accessed several grass covered areas within the Wilcox Refinery property. The surface was soft, requiring assistance from the mini excavator to access sample locations and to move from location to location.

After completing all accessible locations on the Wilcox property, the truck rig returned to the Lorraine property. Locations along the northern and western fence lines were completed, as well as several locations in the interior of the property. At that time, no further locations were accessible using the truck rig and it was released from the site on Friday, December 11, 2015.

Track-Mounted ROST Activities

The track rig began sampling activities at Tank 11 on Tuesday, December 1, 2015. Equipment issues with the laser due to cold and conditions did not permit the track rig to begin full operations until Saturday, December 5, 2015. By this time, the truck-mounted rig had completed five days of investigation. Based on results from the truck rig, the decision to collect only ROST data was continued. The track rig completed Tank 11, 12, and then Ponds 1 and 2 on the Wilcox Refinery property. The rig then mobilized to the Tank Farm and completed Tank 7, Tank Area 10, Tank 13, and Pond 3 followed by Tanks 9 and Pond 4. The track rig was then mobilized to the eastern edge of the accessible Tank Farm to complete Tanks 3 and 5. At Tank 8, the rig was used to verify results at four locations from core sampling by DPT. This procedure was repeated for Tank 6 before mobilizing to the the Wilcox Facility.

After significant clearing, the track rig was utilized to investigate the northeastern corner of the Wilcox Property. This area is now designated as the Product Storage Area based on further review of the 1923 and 1961 Sanborn Maps. After significant contamination had been located by the truck ROST rig at the pre-planned locations, further investigation to the northeast was warranted at locations inaccessible to the truck.

At the completion of the Product Storage Area, the track rig mobilized to the southern border of the Wilcox facility and completed activities in and around Tanks 34, 35, 36 and 37. Minimal locations were attempted in these areas due to access difficulties.

The track-mounted ROST finished activities on the Lorraine Facility at several locations of interest based on previous truck-mounted ROST results.

Geoprobe™ Activities

At the beginning of site activities, the Geoprobe™ DPT sampling was used in areas that were expected to have minimal overburden based on the previous SERAS geophysical activities. DPT sampling was completed at Tank 8, Pond 4, and Tank 6. All cores were logged and screened using a PID and the Niton field portable XRF.

The Geoprobe™ was then utilized to sample locations at which the ROST had located significant contamination. Cores were collected at approximately 30 locations chosen by the WAM and SERAS TL from locations based on the ROST data. Samples were collected at discrete depths and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and total petroleum hydrocarbons as diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO). All VOCs, SVOCs, and metals samples were shipped within holding times to the Region 6 designated laboratory under the Contract Laboratory Program (CLP) for analysis. All GRO/DRO/ORO samples were shipped to a SERAS subcontract laboratory for analysis.

The Geoprobe™ was then used to install six temporary well points for later sampling.

The DPT crew was released from site on December 12, 2015.

Field XRF Activities

In addition to XRF screening all cores collected by the Geoprobe™, the field chemist was tasked with performing a field screening survey of what was originally called the Additives Area of the Wilcox Refinery (see Figure 10). This area was located north of Tank 34, and was easily recognizable by the denuded nature of the area. After noting an "Ethyl Blending" sign on a building in a separate area of the facility and locating it on the 1961 Sanborn map, a second area was designated for XRF screening.

A sparkling sand/salt material was witnessed in the additives area and marked for screening. This area, when screened using the XRF, yielded a very high Pb reading, essentially percent levels of lead, but out of the calibration range of the device. Further investigation was conducted in the area until adequate data were obtained to clearly delineate the surface lead contamination.

The XRF was then used to screen the area around the Ethyl Blending Building on the western side of the Wilcox Property.

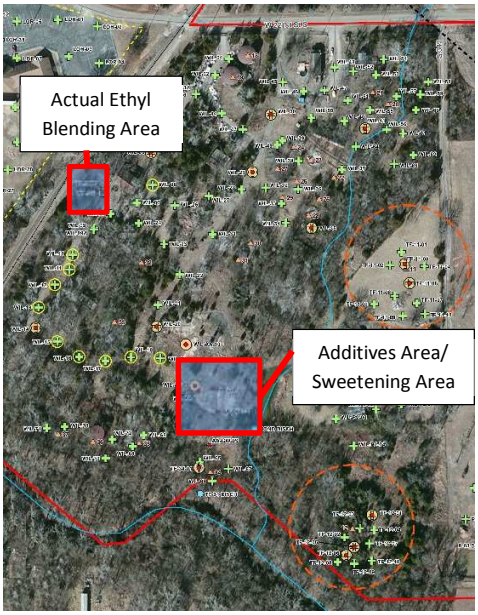


Figure 10. Wilcox Facility
Current aerial showing Additives Area (Sweetening Area) and Ethly Blending Area.

Well Sampling Activities

At the completion of the installation of the temporary well points, each was sampled for VOCs, SVOCs, Metals (Total and Dissolved), GRO, DRO, and ORO where water volumes permitted. All VOCs, SVOCs, and metals samples were shipped within holding times to the Region 6 designated CLP laboratory for analysis. All GRO/DRO/ORO samples were shipped to a SERAS subcontract laboratory for analysis.

Daily Data Activities

On a daily basis, all available data were entered into the SCRIBE database. ROST data were usually available on the day following the completion of a location. All XRF data were available at the end of each day. GPS data were collected for all locations each day and uploaded into the SCRIBE database. Once the data were entered into the database, an output file (*.apdv) was generated by the field team and sent to S2C2, Inc. for modeling and visualization. Within several hours, a three-dimensional (3-D) interactive file was made available by S2C2 to the field team for review.

Site activities were completed on December 15, 2015. All rental equipment was returned and all personnel demobilized from the site on December 16, 2015.

RESULTS

Geophysics

Geophysics results are presented in Appendix K. The geophysical equipment was able to locate the Williams pipeline as well as several local utilities at several of the residences. The GPR data is difficult to evaluate due to the significant presence of thick clay layers just below the surface across the entire site. Test pitting performed to evaluate GPR data indicated that reflections believed to be bedrock were indeed reflections or anomalies related to clay layers and did not indicate the presence of bedrock. The geophysics were unable to indicate the presence of

petroleum hydrocarbons at the site. Results of the test pit lithologies are presented later with the ROST Investigation results.

The Geophysical and Test Pit Results did indicate the presence of sufficient overburden to utilize CPT/ROST as a further investigational strategy.

ROST Investigation Results

The results for this investigation have been divided into "Area Evaluations" and are attached as Appendix A. These evaluations are intended to summarize with some detail the results for each area. The Wilcox Oil Company Superfund site is a diverse collection of many different situations and types of residual contamination.

All analytical results used to generate the Area Evaluations are stored in the site-specific SCRIBE database. The database has been included as Appendix B. The ROST and *in-situ* XRF results were exported from the SCRIBE database in an APDV file format compatible with Environmental Visualization System (EVS) Pro and sent to S2C2, Inc. for visualization. The S2C2 report is included as Appendix C. Appendix D, E and F are the output from the EVS model for the ROST and XRF results in the form of a ".4Dim" file, a proprietary interactive viewer for EVS models. Appendix G contains a certified Sanborn Map Report that contains several fire insurance maps from the period in which the Lorraine Refinery and Wilcox Oil Company operated at the site. All ROST results are given in Appendix H. A field guide to understanding ROST presented by Fugro Consulting, Inc is given as Appendix I. Geologist's (V. Piazza) field notes including all core logs and PID results are given in Appendix J. The SERAS geophysical report is included as Appendix K. CLP laboratory reports and validated data are presented in Appendix L. SERAS subcontract laboratory GRO/DRO/ORO results are included as Appendix M. Appendix N contains the 1941 and 1956 georeferenced aerial photographs. Appendix P contains all CPT Data logs. Test pit field notes are included in Appendix O

Sample and ROST locations presented here and in the Area Evaluations section may differ from the originally planned locations (See Figures 5, 6 and 8). Actual sample locations (Figure 11) were based on access, utility

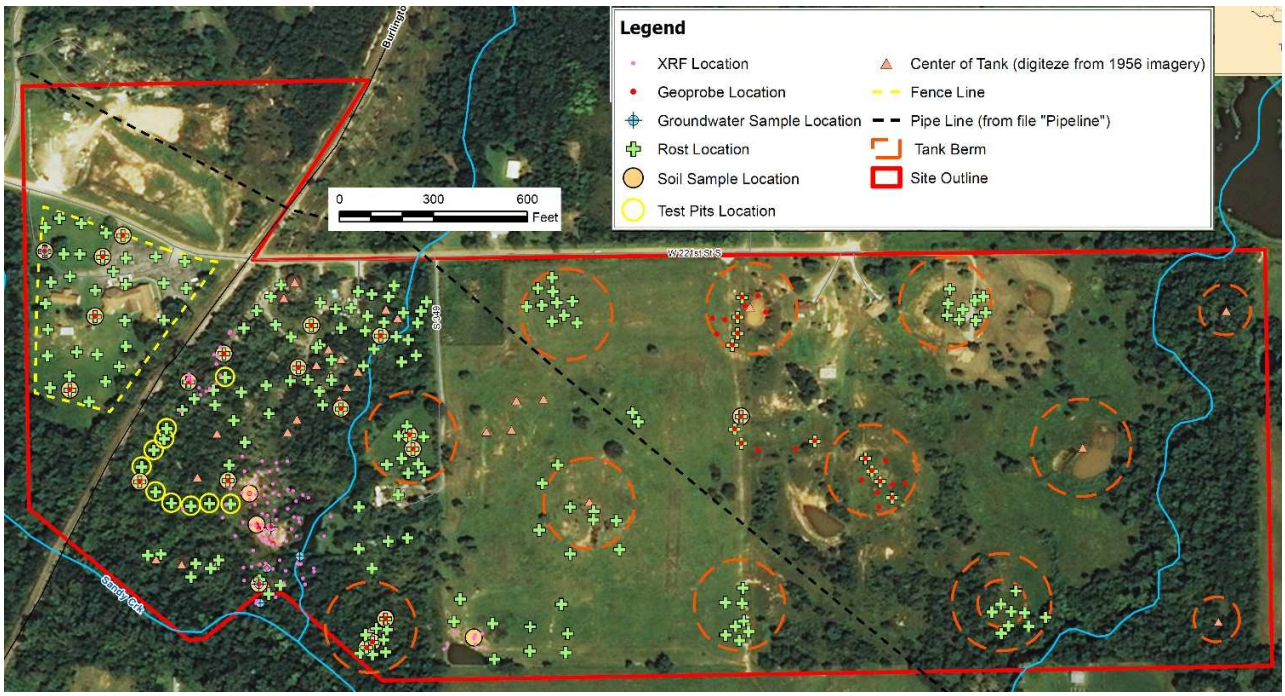


Figure 11. Actual Sample Locations

clearances, and results as the investigation progressed. Area Evaluations (Appendix A) contain more detailed maps regarding sample locations.

ROST fluorescence data were kriged (numerically modeled) within geologic grids as described in the Data Visualization Report (Site wide and area specific) included as Appendix C. 3-D kriging provides a statistically-based method for predicting values for nodes within a specified grid based on both the spatial distribution and values of the actual data set. Kriging settings were set individually based on their individual data properties and professional geologic judgement. See Appendix C for a summary of the settings and the rationale.

The kriging module calculates the statistical confidence of each predicted value for each calculated node based on the actual data kriged. In general, statistical confidence of predicted values increases in proximity to actual data and decreases away from data. For the ROST fluorescence data set, a confidence bound factor of 10 (default value) was used. This means that the confidence reported is based on the predicted value being within an order of magnitude of the actual value (e.g. if a predicted fluorescence value is 3%RE, the confidence is reported based on the actual value being between 0.3 and 30 %RE). To evaluate the effects of confidence of the kriged data set, a min/max kriging was completed based on a confidence of 80% that each value was within a factor of 10 (confidence bound factor) of the actual value. During this kriging analysis, the minimum, median and maximum predicted values are reported for each grid node (minimum and maximum values have 80% confidence).

Two-dimensional (2-D) kriging was conducted on the site-wide ROST fluorescence data set to create the 2-D maximum outputs shown in the Area Evaluations. For the ROST fluorescence data set, the 3-D kriging results were input directly into a 2-D kriging module. There is no interpolation completed in these calculations and as such there are no exported statistics (i.e., confidence is always 100%). The 3-D data sets are collapsed by the maximum value and then kriged in 2-D. For the Wilcox data set this was completed for the minimum, median and maximum predicted 3-D fluorescence results. These 2-D maximum results can be used to illustrate the maximum predicted concentrations within the 3-D data sets.

Kriging was used as a statistical tool to predict fluorescence values based on the high resolution data set collected. In the 2-D Max figures given in the Area Evaluations, a fluorescence value of 3%RE was used to represent fluorescence above background. This value was chosen based on inspection of the actual ROST logs as well as based on a visual evaluation of kriging results (i.e., below 3 %RE, boundary conditions become more apparent which is common in kriged data sets when a given threshold approaches the reporting limit).

The 2-D kriging results shown in each Area Evaluation define the area that statistically contains contamination above background levels. These results, along with the 3-D results can be used to design a targeted delineation study, minimizing extraneous sampling, and optimizing sampling locations for a definitive horizontal and vertical delineation.

Area Evaluations

The evaluations are grouped by investigational area and subdivided into separate areas of interest. The three major groups are the Wilcox Refinery Area (Appendix A – Sections 1 through 8), the Tank Farm (Appendix A – Sections 9 through 18), and the Lorraine Refinery (Section 19). The Sweetening Process Area (Appendix A – Section 20) has been kept separate from the Wilcox Refinery Area due to a different type of contamination, i.e. Pb.

Each Area Evaluation details:

- A description of the area
- A summary of geologic observations from test pits, core logs, geophysical results and overburden depth.
- General topography
- A summary of the ROST results
- Identified environmental impacts and conclusions
- Identified data gaps
- Recommendations for future actions to fill data gaps

Each Area Evaluation also includes a graphical representation of the data gathered for that area including where applicable:

- Area Location Map
- Sanborn Maps
- Sample Location Maps
- ROST Fluorescence Response Data for all ROST sample locations in that area with LIF Waveforms of detected compounds.
- Analytical Results when available
- Two Dimensional (2-D) Maximum Fluorescence Maps
- 3-D Visualization of the Area

GENERAL OBSERVATIONS

Lithology

- The lithology of the site is interbedded clay layers over bedrock.
- Layers are brown, red, white or gray
- Have varying amounts of very fine sand or silt
- Test Pits advanced across the site indicated a thin layer (1 to 3 ft) of brown sandy material over thick clay layers. Test pits were advanced to approximately 10 ft bgs at eleven locations. Test pits were dry with the exception of Test Pit 8 located near Tank Farm Tank 7. At this location, a seep was observed at 4 ft bgs. Test pit locations are shown on Figure 12. Further test pit observations are given in the Area Evaluations (Appendix A) and in Appendix O.
- Contamination is in thin layers, usually in the sandier clay layers.
- It appears these clay layers have limited vertical migration of contamination throughout most if not all of the site.

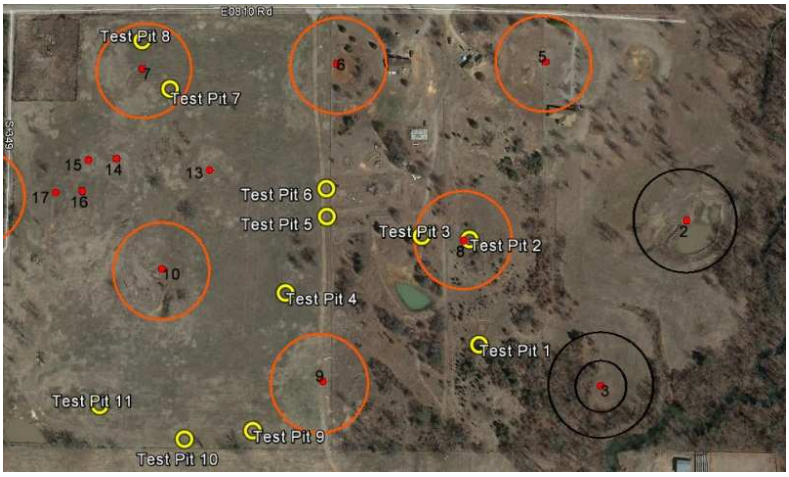


Figure 12. Test Pits

- The depth to refusal across the site varies from bedrock outcrops at the surface to depths greater than 40 feet. Figure 13 shows a map of the depths to refusal for the ROST investigation. It should be noted that depth of refusal may be to bedrock or to a highly competent clay. Based on test pitting and DPT observations, several of the clay lenses are very dry and dense and could cause refusal prior to bedrock.

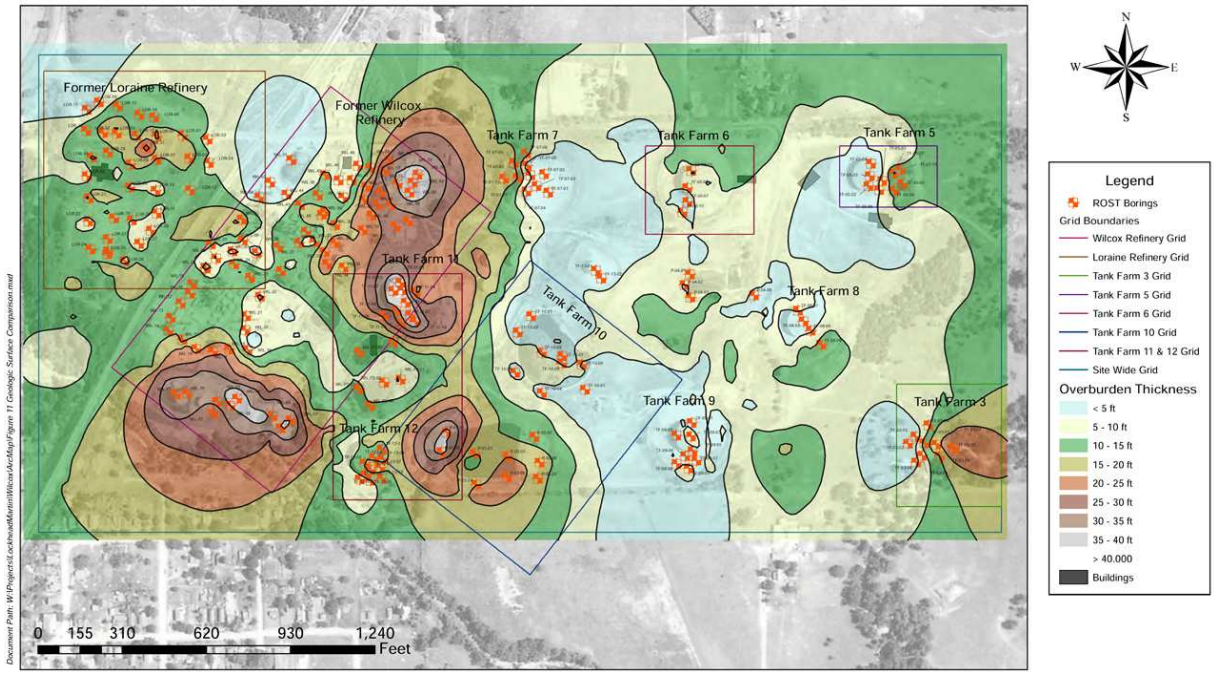


Figure 13. Overburden Thickness Map
Taken from Appendix C – Figure 11

Contamination

The primary areas of TPH contamination are on the Lorraine Facility and in the Product Storage area of the Wilcox Facility. These areas are also the oldest refining areas on the site.

- There is a significant surface Pb contamination in the Sweetening Area of the Wilcox Refinery. Pb is present at the surface in percent levels (See Appendix 1 Section 20).
- Elevated levels of Pb were found at the ethyl blending area up to a maximum of 1,400 parts per million (ppm) inside the building. One location to the north of the building (WIL-XRF2-17) indicated 1,100 ppm Pb.
- Full XRF results for all cores are available in the SCRIBE project database. Data should be reviewed by a qualified XRF chemist familiar with calibration ranges and interferences. Significant Pb contamination above calibration ranges was encountered.
- Refinery materials appear to have been utilized throughout the site as fill material, road base, or armor for berms. It was common to find thin layers of low level contamination under each tank impoundment area possibly related to the armoring material.
  - Slag like material – structural fill
  - Asphalt like material – road base, armoring
  - Materials need to be assessed for toxicity, leachability, bioavailability, and/or risk.
- Elsewhere on the site, contamination was in limited areas, in thin layers and analytical results indicated that concentrations were relatively low compared to the action limits.

- Human health screening and eco-risk screening should be performed to determine if further action in the Tank Farm are warranted.
- Borings collected by DPT in locations indicated by ROST as being significantly contaminated, when visually inspected, did not indicate contamination. No stains, dark lenses or other easily identifiable contamination was observed. PID instrument reading were marginally able to detect contamination.
- ROST and other direct sensing technologies are much more sensitive to the presence of low levels of contamination than conventional techniques, e.g. cores, PIDs, or visual inspection.
- It is difficult to correlate ROST %RE results with analytical results. Samples collected from DPT cores inherently cannot sample thin zones of contamination due to minimum sample volumes and can yield significantly lower results due to dilution effects. Also, the samples collected from this site contained a significant amount of "High Matrix Background" effects (see Appendix L CLP Reports), causing difficulty in interpreting the spectra data. The high matrix background effect can be seen in Figure 14, the spectra from sample 277-0024 (WIL-41) as analyzed by Katahdin for GRO/DRO/ORO. Distinct peaks from lower level compounds are obscured. Measuring the area under the curve for individual compounds becomes extremely difficult.

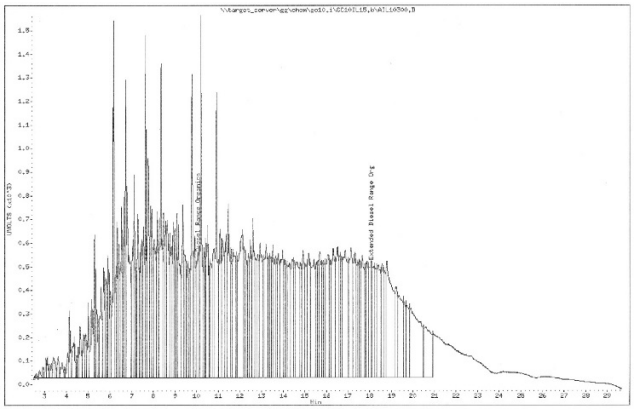


Figure 14. Spectra from Sample 277-0024
Katahdin Laboratories

- Care must be taken when correlating %RE data with analytical data. Many different factors can impact the evaluation of the correlation, including but not limited to the matrix, moisture levels, contaminant thickness (sample dilution effects), "High Matrix Background" effects, contaminant types, DPT sampling depth uncertainties (compression, hole collapse), and contaminant mixes. Locations with similar waveforms and similar fluorescence may have significant laboratory analysis differences. ROST data and modeling data should be used to indicate the presence of contamination and should be used as the basis for developing a targeted delineation sampling strategy.
- Metals samples collected from all borings were submitted to the CLP laboratory for Target Analyte List (TAL) metals analysis. The results of these analyses are shown in Table 1. The background level for arsenic exceeds the project action limit of 0.67 milligrams/kilogram (mg/kg) at all sampled locations. Cobalt and Manganese were detected above the project action limits in boring P-04-01 at a depth of 3.5 ft. Lead was detected above the project action limits in the surface sample collected at WIL-AA-11

(7,080 mg/kg) and in the sample collected at TF-34-01 (6,780) at a depth of 6 ft. Both of these samples are in the Wilcox Sweetening Process area.

	LOCATION	P-04-01	LOR-06	LOR-12	LOR-09	WIL-30	WIL-29	WIL-05	WIL-25	TF-11-03	TF-11-05	TF-12-05	TF-12-01	TF-12-06
	DEPTH (ft)	3.5	7.5	11	8.5	5	5	12	8	5	8	8	7	7
Analyte	Action Limit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	77000	13900	15300	13500	11000	6720	9710	10000	4940	11400	12200	12700	14400	15500
Antimony	31	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U
Arsenic	0.67	9	2.6	2.7	1.7	2.4	1.5	1.7	2.7	3.4	2.4	1.9	1.6	3.8
Barium	15000	43.5	40.5	53.8	31.1	43.1	54.3	29.3	18.3	49.1	76	50.6	70.4	70.2
Beryllium	160	1	0.59 U	0.58 U	0.57 U	0.6 U	0.59 U	0.58 U	0.58 U	0.58 U	0.58 U	0.57 U	0.58 U	0.56 U
Cadmium	70	0.58 U	0.59 U	0.58 U	0.57 U	0.6 U	0.59 U	0.58 U	0.58 U	0.58 U	0.58 U	0.57 U	0.58 U	0.56 U
Calcium	NP	577 U	598	579 U	596	2140	824	666	577 U	585 U	589	840	1140	1210
Chromium	120000	26.4	7.1	8.9	7.2	13.8	8.2	7.1	6.7	7.9	8.7	7.5	7.7	8.7
Cobalt	23	23.2 J	2.2 J	4.6 J	2.5 J	3.1	3	2.3	3.2	10.4	4.2	4.4	3.8	4.1
Copper	3100	16.7 J	5 J	4.1 J	3.7 J	7.1	4	3.6	5.8	5.1	4.7	3.4	4.6	3.5
Cyanide	2.7	0.58 U	0.59 U	0.58 U	0.57 U	0.6 U	0.59 U	0.58 U	0.58 U	0.58 U	0.58 U	0.57 U	0.58 U	0.56 U
Iron	55000	27300	12600	13500	12000	8340	8430	11800	7950	9070	9790	11200	11900	17400
Lead	400	10.2	3.4	3.8	2.1	46	19.6	5.5	6.8	4.3	5.9	2.6	3.5	2.8
Magnesium	NP	886	1080	1600	1440	757	728	1270	577 U	899	1080	1410	1830	1720
Manganese	1800	2370	82.6	168	82.3	192	238	59.8	67.7	1470	94.3	109	26.3	62.5
Mercury	9.4	0.0066 UJ	0.12 U	0.0071 UJ	0.11 U	0.095 UJ	0.25	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U	0.01 UJ
Nickel	1500	20.1 J	3.3 J	5.9 J	5.3 J	5.4	4.4	4.9	3.5	7.3	6.3	6.9	9.3	6.8
Potassium	NP	1470	1770	1760	1810	876	1150	1490	708	1300	1560	1370	1520	1770
Selenium	390	0.34 UJ	2.9 U	2.9 U	2.9 U	3 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.8 U
Silver	390	0.58 U	0.59 U	0.58 U	0.57 U	0.6 U	0.59 U	0.58 U	0.58 U	0.58 U	0.58 U	0.57 U	0.58 U	0.56 U
Sodium	NP	577 U	585 U	579 U	572 U	29.2 UJ	45.5 UJ	47.1 UJ	9.8 UJ	26 UJ	34.2 UJ	123 UJ	89.2 UJ	305 UJ
Thallium	0.78	0.29 U	0.29 U	0.29 U	0.29 U	0.3 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.28 U
Vanadium	390	35.7	15.4	14.8	11.8	11.2	13	9.8	12.8	15.7	13.8	13.2	13.7	12
Zinc	23000	5.2	5.2	10.2	7.4	41.1	22.2	5.3	3.8	5.4	6.3	7.6	10	8

	LOCATION	WIL-20	WIL-35	WIL-14	P-03-SAND	WIL-AA-10	WIL-AA-11	WIL-AA-11	WIL-41	TF-34-01	LOR-18	LOR-25A	LOR-25A
	DEPTH (ft)	7	7	7	0	8	6	0	6	6	6	12	6
Analyte	Action Limit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	77000	12400	12400	12000	10400	9330	23300	17400	3870	7740	8990	5330	12700
Antimony	31	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
Arsenic	0.67	9.4	3.2	1.8	2.3	5.4	3.5	2.1	1.4	1.5	2.5	1.3	2.5
Barium	15000	56.2	65	34.9	27.8	40.5	72.5	90.7	29	85.3	32.7	11.5	36.1
Beryllium	160	1.1	0.58 U	0.58 U	0.58 U	0.57 U	1.2 U	1.2 U	0.6 U	0.65 U	0.59 U	0.59 U	0.59 U
Cadmium	70	1.2 U	0.58 U	0.58 U	0.58 U	0.57 U	1.2 U	1.2 U	0.6 U	0.65 U	0.59 U	0.59 U	0.59 U
Calcium	NP	2410	583 U	1260	1030	911	1480	1550	597 U	1970	586 U	587 U	1980
Chromium	120000	31.6	8.6	10.7	8.2	12.8	20.4	15.1	5.8	7.9	7.7	3	9.9
Cobalt	23	7.6	4.1	3.3	2.2	8	6.6	3.9	1.5	6.1	3.4	1.9	2.9
Copper	3100	4.4	5.2	4.6	5	13.1	12.5	12.4	3.9	9.2	5.7	4	1400
Cyanide	2.7	0.59 U	0.58 U	0.58 U	0.58 U	0.57 U	0.61 U	0.59 U	0.6 U	0.65 U	0.59 U	0.59 U	0.59 U
Iron	55000	50300	11800	15300	10600	20300	23800	23500	4360	9450	9500	4220	9800
Lead	400	14.6	4.9	3.4	3.8 J	56.2 J	30.2 J	7080 J	22.4 J	6780 J	11 J	1.4 J	4.7 J
Magnesium	NP	2630	1050	1280	1080	1740	2730	1630	597 U	753	586 U	587 U	946
Manganese	1800	64.1	78.9	94.9	110	109	158	123	10.5	361	133	8.6	76.8
Mercury	9.4	0.12 U	0.12 U	0.0057 UJ	0.0075 UJ	0.012 UJ	0.023 UJ	0.028 UJ	0.0082 UJ	0.017 UJ	0.0076 UJ	0.0051 UJ	0.011 UJ
Nickel	1500	43.4	5.8	7	5.1	18.5	16.7	11.2	2.1	6.4	3.2	2.4	6.7
Potassium	NP	3420	1300	1550	930	2390	2910	1720	622	1260	922	596	1610
Selenium	390	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	3 U	2.9 U	3 U	3.3 U	2.9 U	2.9 U	2.9 U
Silver	390	1.2 U	0.58 U	0.58 U	0.58 U	0.57 U	1.2 U	1.2 U	0.6 U	0.65 U	0.59 U	0.59 U	0.59 U
Sodium	NP	1820	30.3 UJ	231 UJ	1050	4900	8690	7800	597 U	1820	586 U	587 U	588 U
Thallium	0.78	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.3 U	0.29 U	0.3 U	0.33 U	0.29 U	0.29 U	0.29 U
Vanadium	390	35.2	18.6	12.6	13.7	28.7	24.3	20.9	6	15.3	15.4	5.3	17.2
Zinc	23000	14.6	6	8	6.2	7.1	28.2	16	3.9	13.2	4.7	4.1	131

	Value above Project Action Limit
J	Estimated
U	Not Detected above the minimum detection limit
mg/kg	Milligrams/kilogram
LJ	Estimated Low
NP	Not Published

Table 1. Laboratory Soil Metals Results

Water Sampling

This study was not intended to be a groundwater investigation. Core logs indicated thin layers of perched water interspersed with thick clay layers. Water samples were collected at six locations at depth intervals where ROST or XRF results indicated the highest contamination or from ponds in contaminated areas where discharge to Sand Creek was occurring. The samples locations (See Figure 13) and the rationale for their selection were:

- AA-GW-01, AA-GW-03, TF-34-01 and TF-34 Discharge: These locations were chosen to investigate the impact of the lead contamination found in the additives area and its possible impact on Sand Creek.
- Pond Discharge: This sample was collected from the site pond overflow. This overflow flowed directly to Sand Creek.
- LOR-18: This sample was collected to determine the possible impact of water migration from the Lorraine Refinery property directly to the west to the tributary of Sand Creek. ROST results had indicated that this was a possible pathway for contamination to leave the site.

Nine temporary well points were advanced using DPT technology. A five-foot length of 1-inch polyvinyl chloride (PVC) screen was placed at an interval expected to intersect the contamination indicated by the ROST results. The temporary wells were then sampled the following day to allow for subsurface water to enter the wells. Samples were collected from wells that could produce sufficient volume for samples. Samples could only be collected from five of the nine locations. At all well locations, it appeared the water sampled was perched water above a clay confining layer, had minimal volume, and were very slow to recharge.

Samples were also collected from discharge water in areas discharging to Sand Creek. The VOC and SVOC groundwater results from the temporary wells and surface discharges are shown on Table 2. Only compounds which were detected are listed on these tables. No evaluation of compounds whose detection limit (DL) is higher than the Risk Based Screening Levels or Maximum Contaminant Levels (MCLs) has been performed. Sample locations for all water samples are shown on Figure 13. Insufficient volume was available from AA-GW-02 for sampling. The sample from AA-GW-03 contained a black LNAPL material.

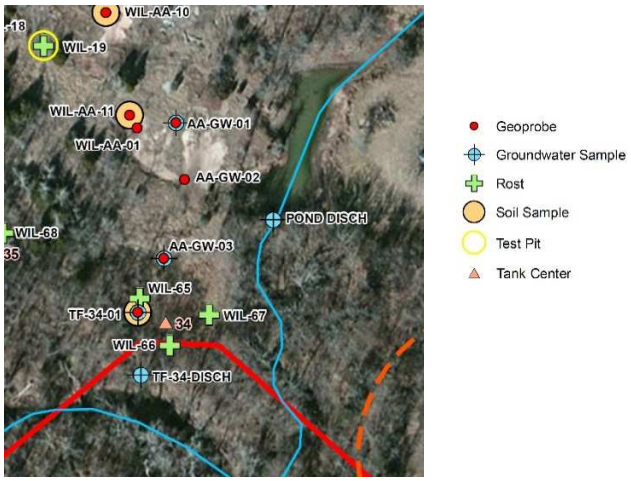


Figure 13. Water Sample Locations/ Sweetening Area

Groundwater results for metals are given below in Table 3. Only metals for which at least one location exceeded either the Screening Level or the MCL are shown in the table.

Location	Analyte	Risk Based Screening Level	MCL	Result	Q	Units
AA-GW-01	2,4-Dimethylphenol	360		250		ug/L
	2-Methylnaphthalene	36		1.4		ug/L
	Naphthalene	0.17		**1.1**		ug/L
	Phenanthrene	NP		0.59		ug/L
	Pyrene	120		0.28	UJ	ug/L
AA-GW-03	2-Butanone	5600		1700	UJ	ug/L
	Acetone	14000		5400		ug/L
	Benzene	0.45	5	**140**	*	ug/L
	Benzene	0.45	5	**2400**		ug/L
	Chloroform	0.22		**140**	*	ug/L
	Chloroform	0.22		**1100**	J	ug/L
	2,4-Dimethylphenol	360		**1300000**		ug/L
	2-Methylphenol	930		**1500000**		ug/L
	4-Methylphenol	930		**1200000**	J	ug/L
	Phenol	5800		**270000**		ug/L
POND DISCH	Dibenzofuran	7.9		0.028	UJ	ug/L
	Naphthalene	0.17		0.015	UJ	ug/L
POND DISCH (FD-04)	Methylene chloride	11	5	0.21	UJ	ug/L
	Naphthalene	0.17		0.0095	UJ	ug/L
LOR-18	Isopropylbenzene	450		29		ug/L
	2-Methylnaphthalene	36		**91**	*	ug/L
	2-Methylnaphthalene	36		35		ug/L
	Benzo(a)anthracene	0.012		**0.17**	UJ	ug/L
	Benzo(b)fluoranthene	0.034	0.2	**0.16**	UJ	ug/L
	Benzo(g,h,i)perylene	NP		0.17	UJ	ug/L
	Chrysene	3.4		0.65	UJ	ug/L
	Dibenzofuran	7.9		1.7		ug/L
	Fluoranthene	800		0.4	UJ	ug/L
	Fluorene	290		3.8		ug/L
	Indeno(1,2,3-cd)pyrene	0.034		**0.11**	UJ	ug/L
	Naphthalene	0.17		**26**	*	ug/L
	Naphthalene	0.17		**16**		ug/L
	Phenanthrene	NP		26	*	ug/L
	Phenanthrene	NP		4		ug/L
	Pyrene	120		0.62	UJ	ug/L

Location	Analyte	Risk Based Screening Level	MCL	Result	Q	Units
TF-34-01	1,1,2-Trichloroethane	0.28	5	**9**	J	ug/L
	2-Butanone	5600		5.7		ug/L
	Benzene	0.45	5	**15**	*	ug/L
	Benzene	0.45	5	**16**		ug/L
	Ethylbenzene	1.5	70	**16**		ug/L
	Isopropylbenzene	450		7.2		ug/L
	m, p-Xylene	NP		57		ug/L
	Methylcyclohexane	NP		11		ug/L
	Methylene chloride	11	5	0.42	UJ	ug/L
	o-Xylene	190		32		ug/L
	Toluene	1100	1000	18		ug/L
	1,1'-Biphenyl	0.83		0.59	UJ	ug/L
	2,4-Dimethylphenol	360		**970**		ug/L
	2-Methylnaphthalene	36		36	*	ug/L
	2-Methylnaphthalene	36		3		ug/L
	Acenaphthene	530		0.65	UJ	ug/L
	Dibenzofuran	7.9		1.3		ug/L
	Naphthalene	0.17		**32**	*	ug/L
	Naphthalene	0.17		**4.6**		ug/L
	Phenanthrene	NP		12	*	ug/L
	Phenanthrene	NP		3		ug/L
	Pyrene	120		9.1	*	ug/L
TF-34-DISCH	2-Methylphenol	930		49		ug/L
	4-Methylphenol	930		25		ug/L
	Anthracene	1800		0.053		ug/L
	Benzo(a)anthracene	0.012		0.0044	UJ	ug/L
	Dibenzofuran	7.9		0.044	UJ	ug/L
	Naphthalene	0.17		0.021	UJ	ug/L

Greater than Screening Level

Greater than both MCL and Screening Level

* - Not recommended for use

UJ - Estimated Low

J - Estimated

Table 2. Groundwater VOC and SVOC Results

Analyte	Risk Based Screening Level	MCL	TF-34-DISCH Total		TF-34-DISCH Dissolved		AA-GW-03 Total		AA-GW-03 Dissolved		TF-34-01 Total		TF-34-01 Dissolved		LOR-18 Total		LOR-18 Dissolved		POND-DISCH Total		POND-DISCH Dissolved	
			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	20000		3200	J	29.6		NA		1270		**46100**	J	4430		**71600**	J	20	U	1740	J	215	
Antimony	7.8	6	1	U	1	U	NA		**13.3**		1	U	1.3		1	U	1	U	1	U	1	U
Arsenic	0.05	10	**2.5**		**1.1**		NA		**707**		**32.9**		**8.3**		**24.3**		**9.9**		**1.3**		**0.78**	
Beryllium	25	4	1	U	1	U	NA		**13.9**		**5.1**	J	0.31	UJ	**5.8**	J	1	U	1	U	1	U
Chromium	22000	100	2.3		0.49	UJ	NA		**752**		99.8		9.1		**148**		0.33	UJ	2.6		0.77	UJ
Cobalt	6		3.8		3.6		NA		**69.8**	J	**24**	J	6		**16.2**	J	1.4		0.5	U	0.34	UJ
Iron	14000		7230		1400		NA		**16700**	J	**35400**	J	6490		**29100**	J	**36800**		1700		304	
Lead	15	15	**495**		**106**		NA		**752**	J	**151000**		**3860**		**471**	J	1	U	**61.8**		11.1	
Manganese	430		**827**		**894**		NA		**1370**		**6950**		**1470**		**2470**		**1660**		59		36	
Nickel	390		4.6		4.1		NA		**919**	J	31.8	J	9.4		15.7	J	1	U	3.3		2.8	
Selenium	100	50	2.5	U	2.5	U	NA		**58.5**		4		0.55	UJ	3.4		2.5	U	2.5	U	2.5	U
Thallium	0.2	2	0.5	U	0.5	U	NA		**2**	UJ	0.5	UJ	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U
Vanadium	86		4.6	UJ	0.38	UJ	NA		**4170**		**133**		12.9		**209**		5	U	2.8	UJ	0.35	UJ

All Results are given in micrograms/Liter (µg/L)

Greater than Screening Level

Greater than MCL

Greater than both MCL and Screening Level

Q - Lab Results Qualifier

J - Estimated

U - Not Detected above the Minimum Detection Limit

UJ - Estimated Low

Table 3. Metals Groundwater Results

DATA GAPS

The data gaps presented here are overall project data gaps. Data gaps for individual areas are included in each Area Evaluation (Appendix A).

- ROST detects PAH compounds with two or more aromatic rings. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.
- The laboratory analyses which most appropriately quantify ROST data are TPH fractions (GRO/DRO/ORO). Contaminated areas should be delineated to below ODEQ TPH cleanup standards. Only samples collected outside the TPH-delineated area should be analyzed for target compounds for risk based screening. This approach avoids masking the risk based parameters due to "high matrix background" from high TPH concentrations.
- ROST results will vary depending on soil type. In general the lower the surface area of the soil, the higher the fluorescence. For example, contaminants in sands and gravels can fluoresce an order of magnitude higher than the same contaminant in silts and clays.
- ROST detects product or non-aqueous phase liquids (NAPLs), not dissolved phase compounds.
- The impoundment containing tanks 14, 15, 16 and 17 were not investigated.
- The North Tank Farm, Loading Dock Area and potential tank locations to the east of Sand Creek were not investigated.
- There is a small area with two crude oil tanks and an oil pump shown on the 1923 Sanborn just north of Pond 4 and between Tanks 6 and 8 (See Figure 14). This area was not investigated.

Figure 14. Uninvestigated Area
1923 Sanborn. Oil Pond is in approximate location of Pond 4.

- A subsurface investigation is needed to confirm the presence or absence of water, the classification of the water, and identification of any seep to the creek.
- Waste characterization sampling is needed for the different waste sources.
- Further test pitting, DPT borings or CPT investigation may be considered to verify the apparent presence of a continuous confining layer (clay/bedrock) throughout the site as indicated by the results of this investigation.
- Test pitting in the most contaminated areas of the Wilcox and Lorraine refineries may be considered to determine if free phase product exists in these areas.
- Further horizontal and vertical delineation of the Sweetening Process area is needed.

CONCLUSIONS AND RECOMMENDATIONS

Discussions and recommendations for each area are listed in the Area Evaluations (Appendix A).

REFERENCES

Quality Assurance Project Plan – Wilcox Oil Company Superfund Site – Revision 1, Lockheed Martin/Scientific, Engineering, Response and Analytical Services (SERAS), November 24, 2015. Document number SERAS-277-DQAPPR1-112415.

Work Plan for Work Assignment No. SERAS-277, Amendment 1, Wilcox Oil Company Superfund Site, Lockheed Martin/Scientific, Engineering, Response and Analytical Services (SERAS), December 18, 2015. Document number SERAS-277-DWPA1-121815

APPENDICES

Appendix A – Area Evaluations

- Section 1 – Wilcox Refinery Overview
  - Sheet 1A – Wilcox Refinery Overall View
  - Sheet 1B – Wilcox Refinery 3-D Overall View
- Section 2 – Wilcox Tank 11
  - Sheet 2A – Wilcox Tank 11
  - Sheet 2B – Wilcox Tank 11 Analytical Results
- Section 3 – Wilcox Ponds 1 and 2
  - Sheet 3 – Wilcox Ponds 1 and 2
- Section 4 – Wilcox Tank 12
  - Sheet 4A – Wilcox Tank 12
  - Sheet 4B – Wilcox Tank 12 cont.
  - Sheet 4C – Wilcox Tank 12 Analytical Results
- Section 5 – Wilcox Tanks 34, 35, 36, and 37
  - Sheet 5 – Wilcox Tanks 34, 35, 36, and 37
- Section 6 – Wilcox Lower Process Area
  - Sheet 6A – Wilcox Lower Process Area
  - Sheet 6B – Wilcox Lower Process Area Analytical Results
- Section 7 – Wilcox Upper Process Area
  - Sheet 7A – Wilcox Upper Process Area
  - Sheet 7B – Wilcox Upper Process Area Analytical Results
- Section 8 – Wilcox Product Storage Area
  - Sheet 8A – Wilcox Product Storage Area Overview
  - Sheet 8B – Wilcox Product Storage Area cont.
  - Sheet 8C – Wilcox Product Storage Area cont.
  - Sheet 8D – Wilcox Product Storage Area cont.
  - Sheet 8E – Wilcox Product Storage Area cont.
  - Sheet 8F – Wilcox Product Storage Area cont.
  - Sheet 8G – Wilcox Product Storage Area cont.
- Section 9 – Tank Farm Tank 3
  - Sheet 9 – Tank Farm Tank 3
- Section 10 – Tank Farm Tank 5
  - Sheet 10 – Tank Farm Tank 5
- Section 11 – Tank Farm Tank 6
  - Sheet 11 – Tank Farm Tank 6
- Section 12 – Tank Farm Tank 7

Sheet 12 – Tank Farm Tank 7
Section 13 – Tank Farm Tank 8
Sheet 13 – Tank Farm Tank 8
Section 14 – Tank Farm Tank 9
Sheet 14 – Tank Farm Tank 9
Section 15 – Tank Farm Tank Area 10
Sheet 15 – Tank Farm Tank 10
Section 16 – Tank Farm Pond 3
Sheet 16 – Tank Farm Pond 3
Section 17 – Tank Farm Pond 4
Sheet 17 – Tank Farm Pond 4
Section 18 – Tank Farm Tank 13
Section 19 – Lorraine Refinery
Sheet 19A – Lorraine Refinery Overview
Sheet 19B – Lorraine Refinery cont.
Sheet 19C1 – Lorraine Refinery cont.
Sheet 19C2 – Lorraine Refinery cont.
Sheet 19D – Lorraine Refinery cont.
Sheet 19E – Lorraine Refinery cont.
Section 20 – Wilcox Sweetening Process Area
Sheet 20 – Wilcox Gas Sweetening Area

Appendix B – SCRIBE Database

Appendix C – Wilcox Company Superfund Site Visualization Report

Appendix D – 4Dim File – Wilcox Refinery Property

Appendix E – 4Dim File – Tank Farm Area

Appendix F – 4Dim File – Lorraine Refinery Area

Appendix G – Sanborn Report

Appendix H – ROST Results

Appendix I – Understanding ROST Guide

Appendix J – Geologist Field Notes

Appendix K – Geophysics Report

Appendix L – CLP Reports
Organic Results Sample Delivery Groups
F6R00
F6R05
F6R18
F6R29
Inorganic Results Sample Delivery Groups
MF6R00

MF6R05
MF6R18
MF6R29
MF6R32

Appendix M – DRO/GRO/ORO Laboratory Results

Appendix N – Aerial Photographs

Appendix O – Test Pit Field Notes

Appendix P – CPT Results

Appendix Q – Site Photographs

APPENDIX A

AREA EVALUATIONS

WILCOX OIL COMPANY SUPERFUND SITE

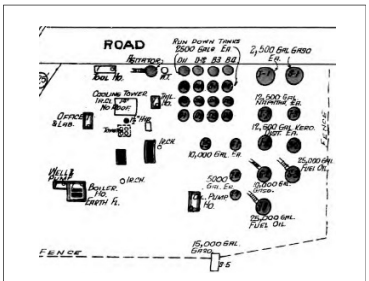
WILCOX REFINERY PROPERTY OVERVIEW

Sheets 1A,1B

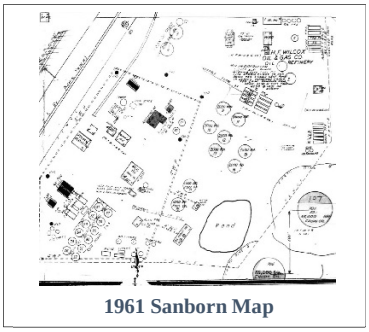
Location Description

Location

- The Wilcox Refinery area is located on the western end of the Wilcox Oil Company Superfund Site. It is bounded by:
  - Railroad line to the west.
  - Sand Creek to the south.
  - Refinery Road (E0810 Rd.) to the north.
  - S349 road to the east.
- 1923 Sanborn Map
  - Entire operations located along the northern border.
    - Run Down Tanks, Agitator, Distillation Tower, Boiler House, Tool House, Office and Lab.
    - Storage Tanks
      - 2500, 12500, 25000 Gallons
- 1961 Sanborn Map
  - This is the primary operations area for the Wilcox Refinery. Located in this area are several areas of interest (See Sheet 1A):
    - Tank 11 (See Section 2)
    - Ponds 1 and 2 (See Section 3)
    - Tank 12 (See Section 4)
    - Tanks 34, 35, 36, and 37 (See Section 5)
    - Lower Process Area (See Section 6)
    - Upper Process Area (See Section 7)
    - Product Storage Area (See Section 8)



1923 Sanborn Map



1961 Sanborn Map

Test Pit/Boring Log Observations

- Boring Logs and Samples
  - Sections 2 through 8 detail the boring logs, test pit observations, and sample results for this area.

Topography

- Surface drainage is variable across the site.
- On the eastern side of the site is a tributary which flows south to Sand Creek.
- To the west is a ravine area in which a railroad line was constructed.
- To the south is Sand Creek.
- Each area of interest details the probable drainage in that area (Sections 2-8)
- Depth to bedrock/refusal is discussed for each area in Sections 2-8.

ROST Results

- The overall 3-D visualization is shown on Sheet 1B. Petroleum hydrocarbon contamination is found mainly to the northeast, in the Product Storage Area (Section 8). As noted above, in 1923, the entire Wilcox Refinery operations were located in this area.
- Residual contamination was seen at Tank 11 (Section 2), Tank 12 (Section 4), and Tank 34 (Section 5).

- Contamination, most likely migrating from the Lorraine property onto the Wilcox Refinery property to the west (See Section 19), can be seen on the western edge of the property.

Environmental Impacts/Conclusions

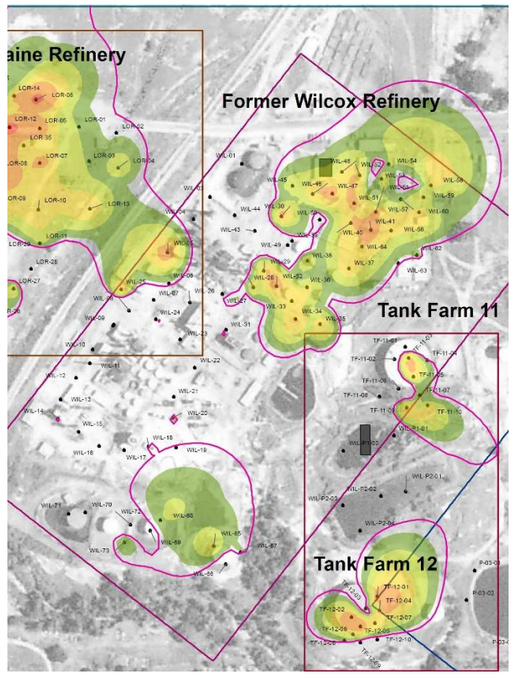
- Each area has been evaluated individually for its environmental impact. (Sections 2-8)

Data Gaps

- Data gaps have been identified for each area. (Sections 2-8)
- ROST detects double ring PAH compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.
- ROST results will vary depending on soil type. In general the lower the surface area of the soil, the higher the fluorescence. For example, contaminants in sands and gravels can fluoresce an order of magnitude higher than the same contaminant in silts and clays.

Recommendations

- Recommendations for each area of the Wilcox Refinery have been given in their respective section discussions. (Sections 2-8)



Median Predicted Results (%RE)
- 3 - 5 % RE
- 5 - 10 % RE
- 10 - 25 % RE
- 25 - 100 % RE
- > 100 % RE

Maximum Predicted Extent
- Total Fluorescence - 3 % RE

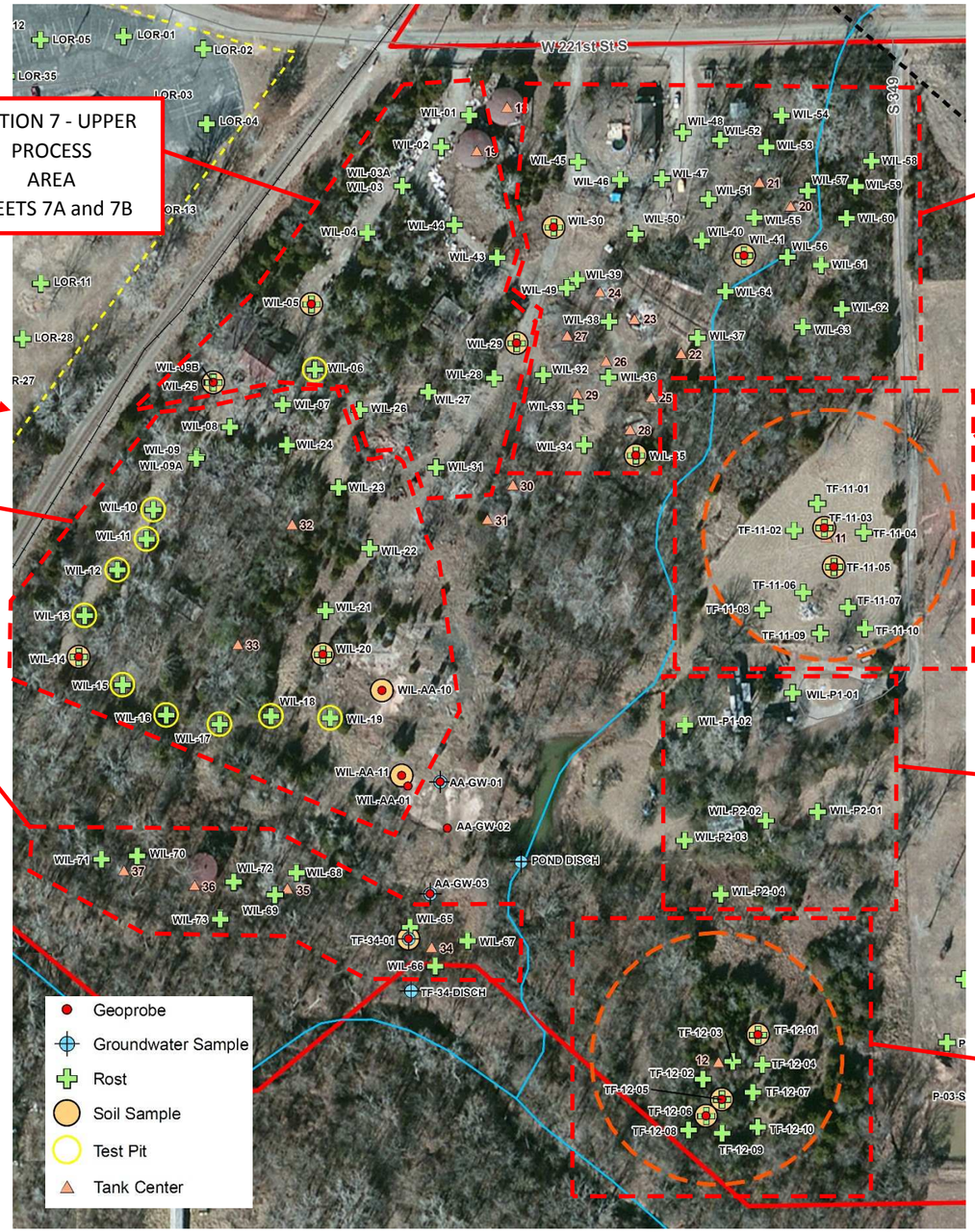
2D MAX CONTAMINATION

SEE SHEET 1B FOR 3-D OVERALL VIEW

SECTION 7 - UPPER PROCESS AREA SHEETS 7A and 7B

SECTION 6 - LOWER PROCESS AREA SHEETS 6A and 6B

SECTION 5 - TANKS 34, 35, 36 and 37 SHEET 5



SECTION 8 - PRODUCT STORAGE AREA SHEETS 8A, 8B, 8C, 8D, 8E, 8F, and 8G

SECTION 2 - TANK 11 SHEETS 2A and 2B

SECTION 3 - PONDS 1 and 2 SHEET 3

SECTION 4 - TANK 12 SHEETS 4A, 4B, and 4C

SAMPLE LOCATIONS

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014743

WILCOX REFINERY
OVERALL VIEW
Sheet 1A

Bristow, Oklahoma

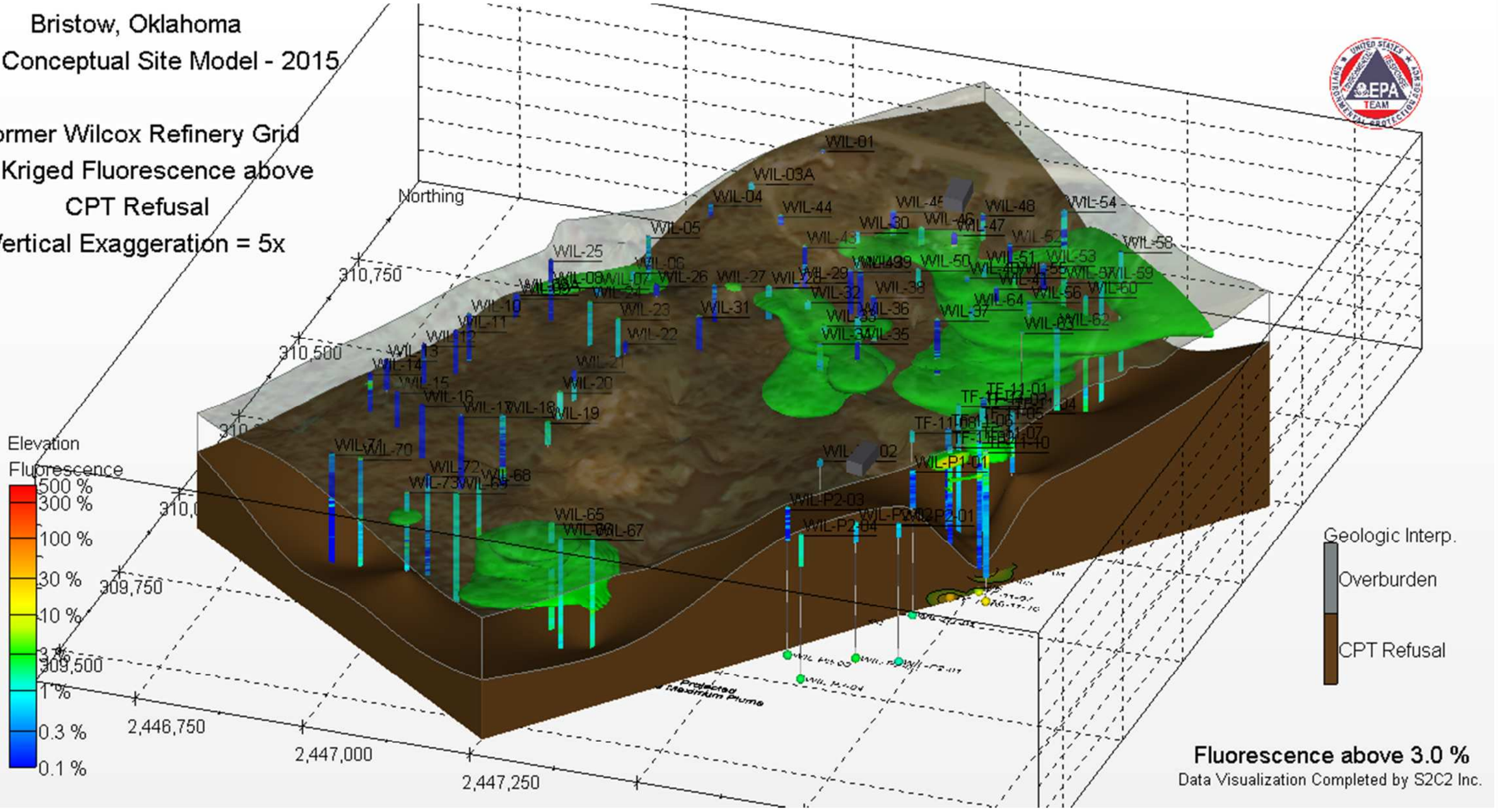
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid

3D Kriged Fluorescence above

CPT Refusal

Vertical Exaggeration = 5x



U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014744

WILCOX REFINERY

3-D OVERALL VIEW

Sheet 1B

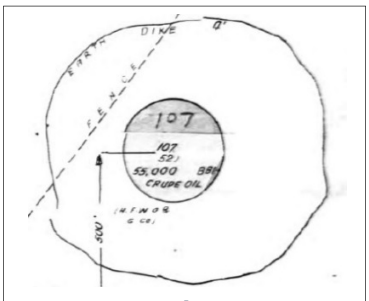
WILCOX TANK 11

Sheets 2A-2B

Location

Location Description

- Located on the eastern side of the Wilcox facility, just south of the Product Storage Area.
- 1961 Sanborn Map
  - Storage Tank labeled Crude Oil
  - Earthen dike around tank.
  - Tank Size:
    - 55,000 barrels.



1961 Sanborn Map
Shows earth dike and 55,000 barrel tank.

Test Pit/Boring Log Observations

- Boring Logs and Samples
  - TF-11-03 (Sheet 2A and 2B)
    - 1-5 ft bgs soft dry reddish brown clay, medium plasticity
    - 5-7 ft bgs soft dry gray silt and fine sand
    - 7-12.6 ft bgs soft dry (to 8.5 ft bgs) to wet low plasticity sandy clay.
    - 12.6-15 ft bgs medium stiff dry brown and gray high plasticity clay.
    - Highest PID reading was between 5 and 6 feet, 144 ppm.
    - Sample results (Sheet 2B) indicate a wide range of hydrocarbon weights. Sample is most likely a significantly weathered crude oil. Quantity of oil in the sample is low, minimizing detected compounds.

TF-11-03 4-5 ft bgs

  - TF-11-05 (Sheet 2A and 2B)
    - 0-6 ft bgs soft dry clay reddish brown changing to dark gray
    - 6-13 ft bgs medium stiff low to medium plasticity gray clay with little fine sand. Hydrocarbon odor was noted.
    - Maximum PID reading was 200 ppm between 9 and 10 ft bgs.
    - Sample Results indicate a wide range of hydrocarbon weights. This sample is similar to TF-11-03, indicating again a weathered crude oil.

TF-11-05 9-10 ft bgs

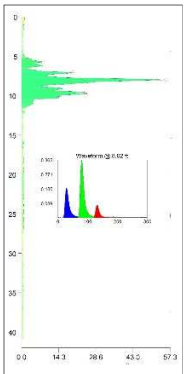
Topography

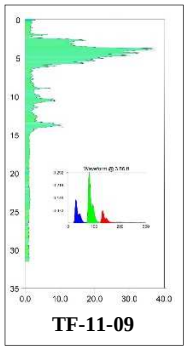
- Surface drainage is toward the south/southeast.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was generally deeper than 40 feet bgs.

ROST Results

- ROST results indicate a uniform petroleum hydrocarbon mixture in the subsurface soils.
  - TF-11-01 represents system background noise, or non-detect.

  - TF-11-07, being a blue color, does not represent a different product, but is a ROST system output error. This was verified with the vendor, Fugro.
- Vertical scales on the ROST results shown on Sheet 2 may vary.
- TF-11-03 and TF-11-05 results indicate that the contamination ends abruptly at approximately 10 to 12 feet. The core logs indicate the contamination is in a sandy clay lens. There is minimal vertical migration. .
- TF-11-09 and TF-11-10 do indicate some vertical migration downward, with the product held at approximately 10 ft bgs and then again at 13 ft bgs. The lithology of the site having lenses of sandy clays interbedded with clay support these observations.
- The 3-D interpretation of the ROST data seems to indicate some preferential pathways and behaviors. It also indicates that vertical migration and horizontal migration has been limited.


TF-11-03

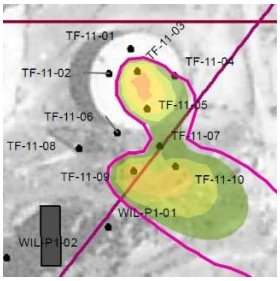

TF-11-09

Environmental Impacts/Conclusions

- The layer of contamination begins at the center of the historic tank and continue downgradient to the south/southeast.
- Contamination levels from samples passed all project action limits with the exception of benzo(a)pyrene in TF-11-05.
- Impact to surface water and groundwater appears minimal.
- Constituents found by analytical methods were consistent with a weathered crude oil material at very low concentrations.

Data Gaps

- ROST detects multi-ring PAH compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.



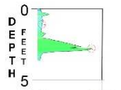
2D Max Contamination
Shown on 1951 aerial photograph.

- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk-based levels.

Recommendations

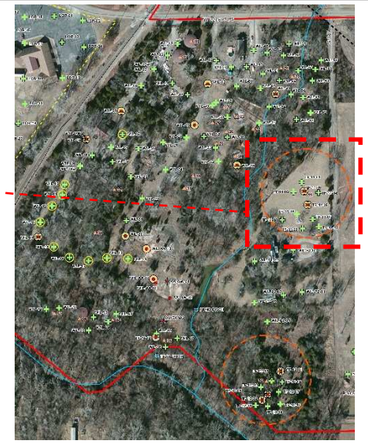
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination.

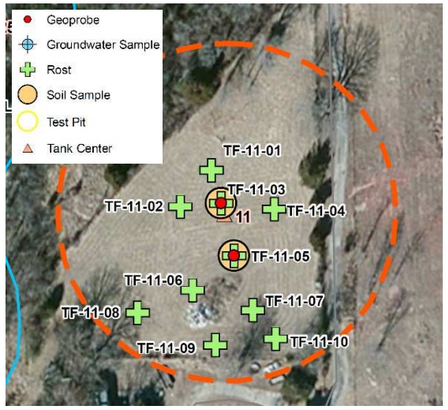
LOCATION



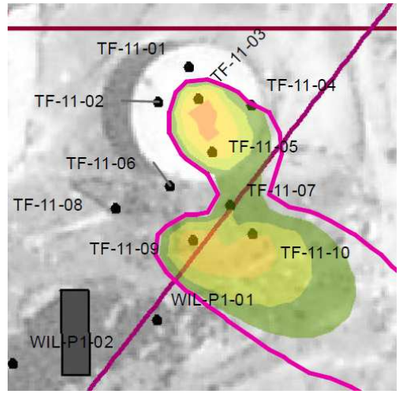
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

This Sheet

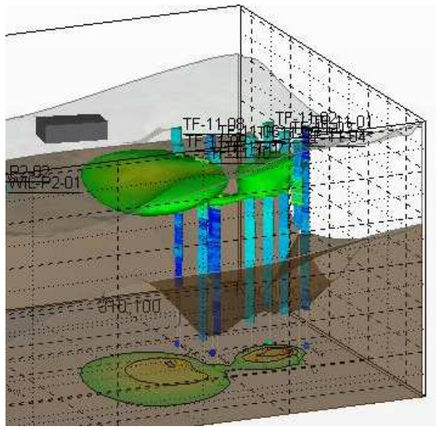




SAMPLE LOCATIONS

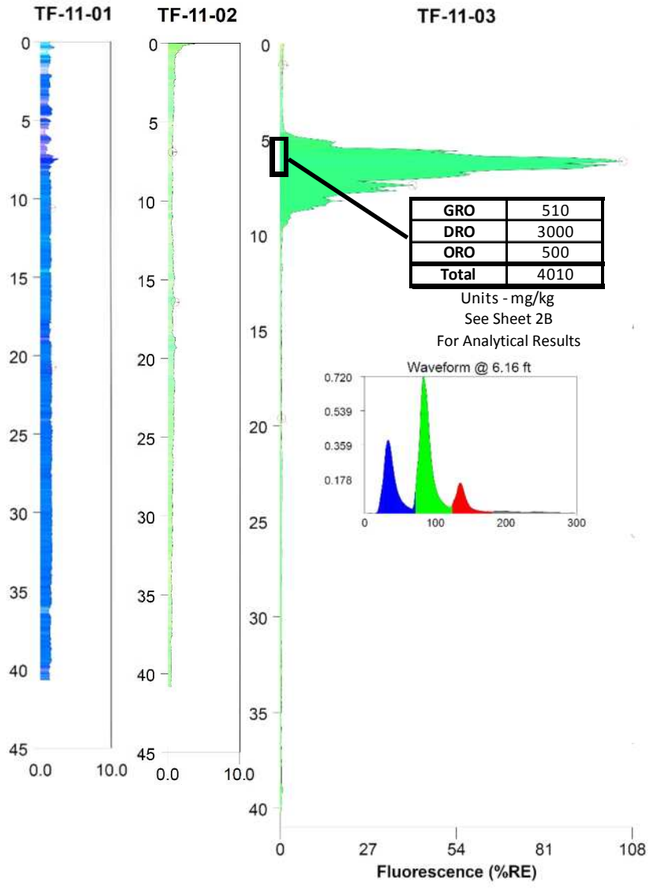


2-D MAX CONTAMINATION



3-D CONTAMINATION

FLUORESCENCE RESPONSE DATA



GRO	510
DRO	3000
ORO	500
Total	4010

Units - mg/kg
See Sheet 2B
For Analytical Results

Waveform @ 6.16 ft

GRO	480
DRO	1300
ORO	660
Total	2440

Units - mg/kg
See Sheet 2B
For Analytical Results

Waveform @ 8.02 ft

Waveform @ 3.86 ft

Fluorescence (%RE)

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014747

WILCOX REFINERY
TANK 11
Sheet 2A

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
TF-11-03 5 to 7.5 Ft bgs	Cyclohexane	**2000**		6500000	HI=1
	Methylcyclohexane	**10000**		NP	HI=1
	1,2-Dibromoethane	290	U	36	1E6
	Isopropylbenzene	**2000**	J^	1900000	HI=1
	1,2-Dibromo-3-chloropropane	290	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7700	U*	4900	1E6
	Hexachloroethane	4000	U*	1800	1E6
	4-Chloroaniline	7700	U*	2700	1E6
	Hexachlorobutadiene	4000	U*	1200	1E6
	2-Methylnaphthalene	**970**	*	240000	HI=1
	2-Methylnaphthalene	**1500**		240000	HI=1
	Hexachlorocyclo-pentadiene	7700	U	1800	HI=1
	2,6-Dinitrotoluene	4000	U*	360	1E6
	2,4-Dinitrotoluene	4000	U*	1700	1E6
	Fluorene	**120**		2400000	HI=1
	4-Chlorophenyl-phenyl ether	4000	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7700	U*	5100	HI=1
	Hexachlorobenzene	4000	U*	210	1E6
	Atrazine	7700	U*	2400	1E6
	Phenanthrene	**550**		NP	HI=1
	Anthracene	**110**		18000000	HI=1
	3,3'-Dichlorobenzidine	7700	U*	1200	1E6
	Benzo(a)anthracene	4000	U*	160	1E6
	Chrysene	**48**		15000	1E6
	Benzo(b)fluoranthene	**17**	LJ	160	1E6
	Benzo(b)fluoranthene	4000	U*	160	1E6
	Benzo(k)fluoranthene	4000	U*	1600	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	4000	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	4000	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	4000	U*	16	1E6

Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

Loc	Analyte	Result	Q	Action Limit	AC
TF-11-05 8 to 10 Ft bgs	Vinyl chloride	2700	UJ	590	1E6
	Chloroform	2700	U	320	1E6
	Carbon tetrachloride	2700	U	650	1E6
	Benzene	2700	U	1200	1E6
	1,2-Dichloroethane	2700	U	460	1E6
	Trichloroethene	2700	U	940	1E6
	Methylcyclohexane	**23000**		NP	HI=1
	1,2-Dichloropropane	2700	U	1000	1E6
	Bromodichloromethane	2700	U	290	1E6
	1,1,2-Trichloroethane	2700	U	1100	1E6
	Dibromochloromethane	2700	U	750	1E6
	1,2-Dibromoethane	2700	U	36	1E6
	m, p-Xylene	2700	U	NP	HI=1
	Isopropylbenzene	**450**	LJ	1900000	HI=1
	1,1,2,2-Tetrachloroethane	2700	U	600	1E6
	1,4-Dichlorobenzene	2700	U	2600	1E6
	1,2-Dibromo-3-chloropropane	2700	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7600	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	4-Chloroaniline	7600	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	**470**	*	240000	HI=1
	2-Methylnaphthalene	**1000**		240000	HI=1
	Hexachlorocyclo-pentadiene	7600	U	1800	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	Dibenzofuran	**37**	LJ	73000	HI=1
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	**110**		2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7600	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7600	U*	2400	1E6
	Phenanthrene	**360**		NP	HI=1
	Anthracene	**93**		18000000	HI=1
	Fluoranthene	**22**	LJ	2400000	HI=1
	Pyrene	**96**		1800000	HI=1
	3,3'-Dichlorobenzidine	7600	U*	1200	1E6
	Benzo(a)anthracene	**20**	LJ	160	1E6
	Benzo(a)anthracene	3900	U*	160	1E6
	Chrysene	**69**		15000	1E6
	Benzo(b)fluoranthene	3900	U*	160	1E6
	Benzo(b)fluoranthene	**40**		160	1E6
	Benzo(k)fluoranthene	**16**	LJ	1600	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(a)pyrene	32	LJ	16	1E6
	Benzo(a)pyrene	3900	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	**26**	LJ	160	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6
	Benzo(g,h,i)perylene	**52**		NP	HI=1

Units - µg/kg

WILCOX REFINERY
TANK 11
Sheet 2B

014748

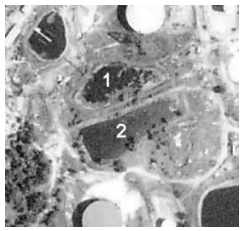
WILCOX PONDS 1 and 2

Sheet 3

Location

Location Description

- Located on the eastern side of the Wilcox facility, just south of the Tank 11 and north of Tank 12.
- 1956 Aerial Photograph
  - Ponds 1 and 2 are shown between Tank 11 to the north, and Tank 12 to the south.
- Current Aerial Photograph
  - The current aerial photograph shows the presence of a trailer home located directly between WIL-P1-01 and WIL-P1-02.



1956 Aerial Photograph

Test Pit/Boring Log Observations

- Boring Logs and Samples
  - No borings were advanced in this area.

Topography

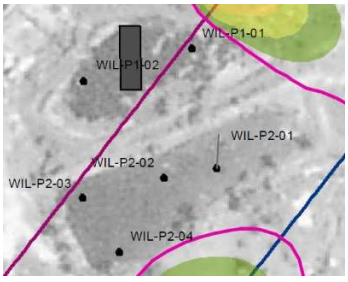
- Surface drainage is toward the west, to an existing drainage pond. The drainage pond discharges directly into Sand Creek.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was generally between 5 and 10 feet bgs.

ROST Results

- ROST results indicated no noticeable contamination.

Environmental Impacts/Conclusions

- No petroleum hydrocarbon contamination was noted in this area. Contamination is visible on the 2-D Contamination map to the north at Tank 11 and to the south at Tank 12. There is no indication that Pond 2 contributed to the contamination at Tank 12.



2-D Contamination
Shown on 1956 Aerial Photograph

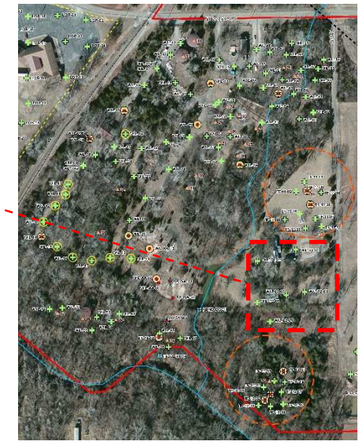
Data Gaps

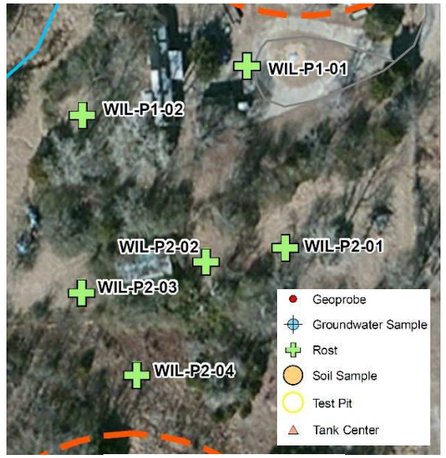
- These ponds seem to have been utilized as separation ponds. The exact nature of their use is unknown. If these ponds were used as produced water separation and evaporation ponds, then the possibility exists of an accumulation of naturally occurring radioactive material (NORM).

Recommendations

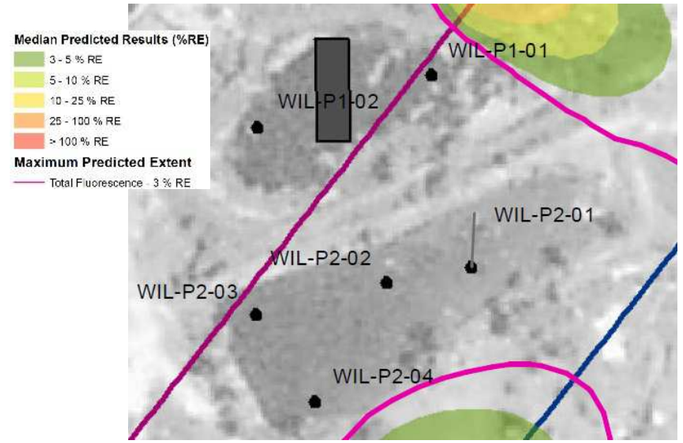
- Investigation of the use of the ponds should be continued. Sampling may be required to determine if a NORM accumulation has occurred.

This Sheet



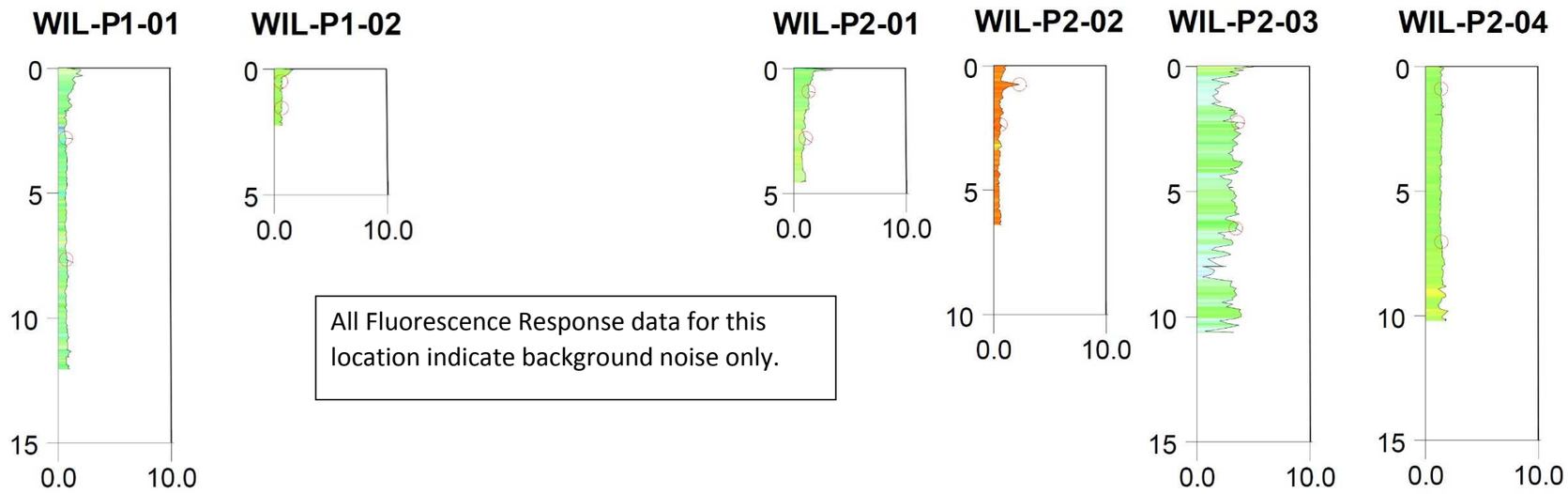


SAMPLE LOCATIONS

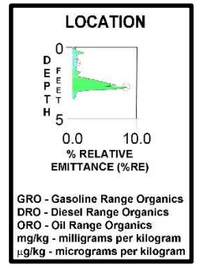


2-D MAX PLUME

FLUORESCENCE RESPONSE DATA



All Fluorescence Response data for this location indicate background noise only.



U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
PONDS 1 and 2
Sheet 3

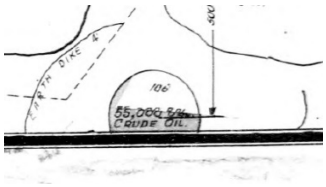
WILCOX TANK 12

Sheets 4A-4C

Location

Location Description

- Located in the southeastern corner of the Wilcox facility, just south of the Tank 11 and Ponds 1 and 2.
- 1961 Sanborn Map
  - Storage Tank labeled Crude Oil
  - Earthen dike around tank. 4 foot tall.
  - Tank Size:
    - 55,000 barrels.



1961 Sanborn Map
Shows earth dike and 55,000 barrel tank.

Test Pit/Boring Log Observations

- Boring Logs and Samples
  - TF-12-01 (Sheet 4A and 4C)
    - 0-5 ft bgs stiff dry brown low plasticity clay moist seam at 4.75-5 ft bgs.
    - 5-8 ft bgs medium stiff dry gray sandy clay, mild hydrocarbon odor.
    - 8-11 ft bgs medium stiff dry red sandy clay.
    - 11-12.5 ft bgs stiff dry gray low plasticity sandy clay.
    - Highest PID reading was between 4 and 6 feet, 315 ppm.
    - Sample results (Sheet 2B) indicate a wide range of hydrocarbons. Constituents are consistent with those found in a weathered crude oil.
    - The contamination could not be seen.

TF-12-01 4-5 ft bgs

  - TF-12-05 (Sheet 4B and 4C)
    - 0-6 ft bgs stiff dry brown low plasticity clay, trace fine sand, silt
    - 6-8 ft bgs stiff dry red and white clay, some fine sand
    - 8-15 ft bgs medium stiff dry medium plasticity clay with some fine sand, moderate hydrocarbon odor.
    - Maximum PID reading was 528 ppm between 12 and 14 ft bgs.
    - Sample Results indicate a wide range of hydrocarbon weights. This sample is similar to TF-12-01, indicating again that the constituents are consistent with those found in a weathered crude oil.
    - The contamination could not be seen.

TF-12-05 8-9 ft bgs

  - TF-12-06 (Sheet 4B and 4C)
    - 0-6.5 ft bgs stiff dry reddish brown non-plastic silt, very fine sand.
    - 6.5-7.5 ft bgs medium stiff dry gray low plasticity clay, some fine to medium sand.

TF-12-05 8-9 ft bgs

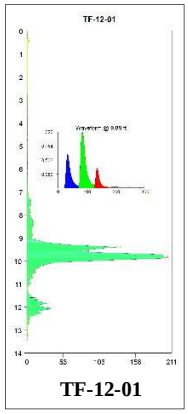
- 7.5-10 ft bgs stiff dry red and gray medium plastic clay, little silt, fine sand
- Maximum PID reading was non-detect.
- Sample Results are consistent with the ROST findings of minimal to no contamination at this location.

Topography

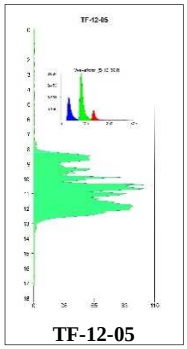
- Surface drainage is toward the south, with a break in the earthen dike directly towards Sand Creek.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was generally between 10 and 17 feet bgs.

ROST Results

- ROST results indicate a single hydrocarbon mixture in the subsurface soils.
- TF-12-01 and TF-12-05 results indicate that the contamination is bound in a layer between 8 and 13 ft bgs. Minimal contamination is found below the 13 foot level.
- The 3-D interpretation of the ROST data (Sheet 4A) indicates contamination is located in a discrete layer in a discrete area with limited vertical migration. Delineation is not complete, particularly to the northeast and west; however, analytical results from the most heavily contaminated areas are all below project action limits. No further delineation is recommended.



TF-12-01



TF-12-05

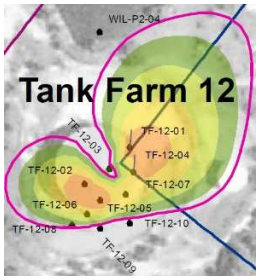
Environmental Impacts/Conclusions

- Constituents found by analytical methods were consistent with a weathered crude oil material at very low concentrations.
- For detected compounds, contamination levels in samples were below all project action limits. Some contaminant minimum detection limits (MDLs) were above the project action limits.
- Impact to surface water and groundwater appears minimal. However, surface drainage from the break in the earthen dike drains directly to Sand Creek. Also noted in the drainage ditch from the tank area was a valve and pipe, most likely the original storm water drain for the impoundment.

TF-12 Impoundment Drain

Data Gaps

- ROST detects multi-ring PAH compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.



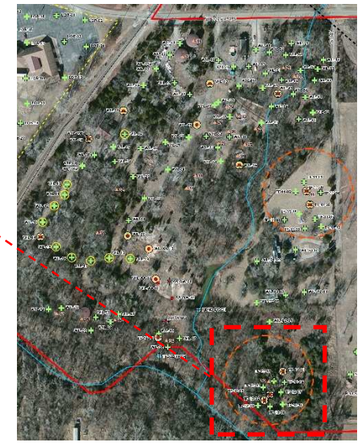
2D Max Contamination
Shown on 1956 aerial photograph.

- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.

Recommendations

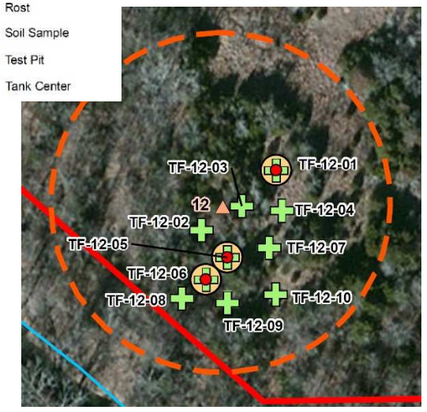
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination.

FLUORESCENCE RESPONSE DATA

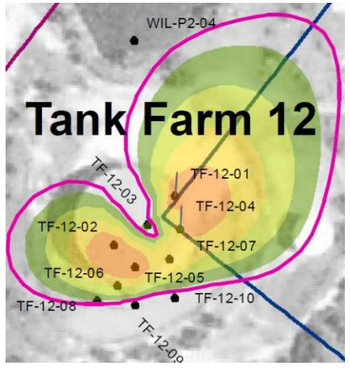


This Sheet

- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center



SAMPLE LOCATIONS

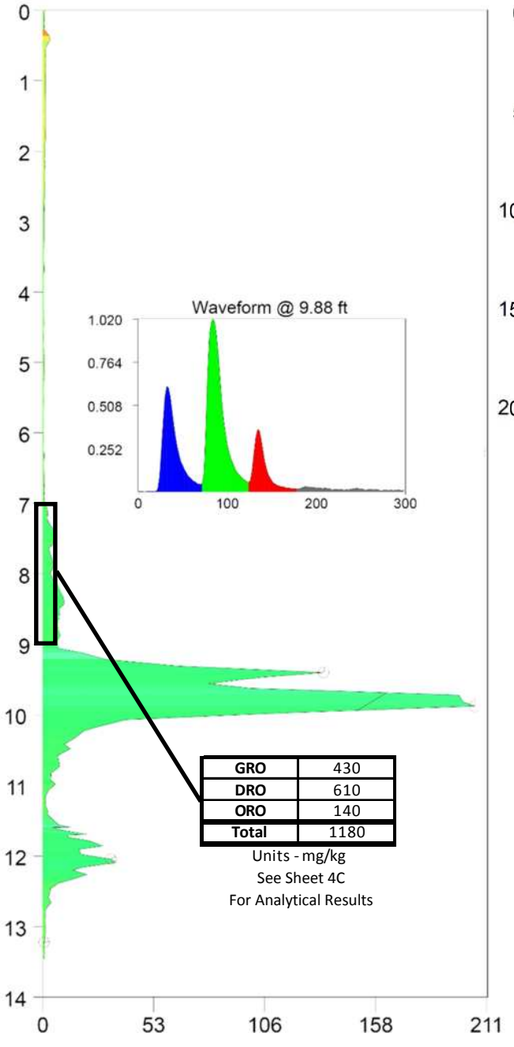


2-D MAX CONTAMINATION

Median Predicted Results (%RE)
- 3 - 5 % RE
- 5 - 10 % RE
- 10 - 25 % RE
- 25 - 100 % RE
- > 100 % RE

Maximum Predicted Extent
- Total Fluorescence - 3 % RE

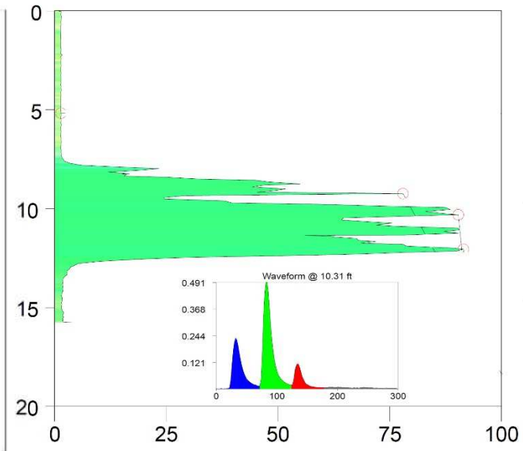
TF-12-01



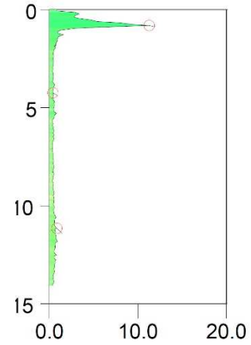
GRO	430
DRO	610
ORO	140
Total	1180

Units - mg/kg
See Sheet 4C
For Analytical Results

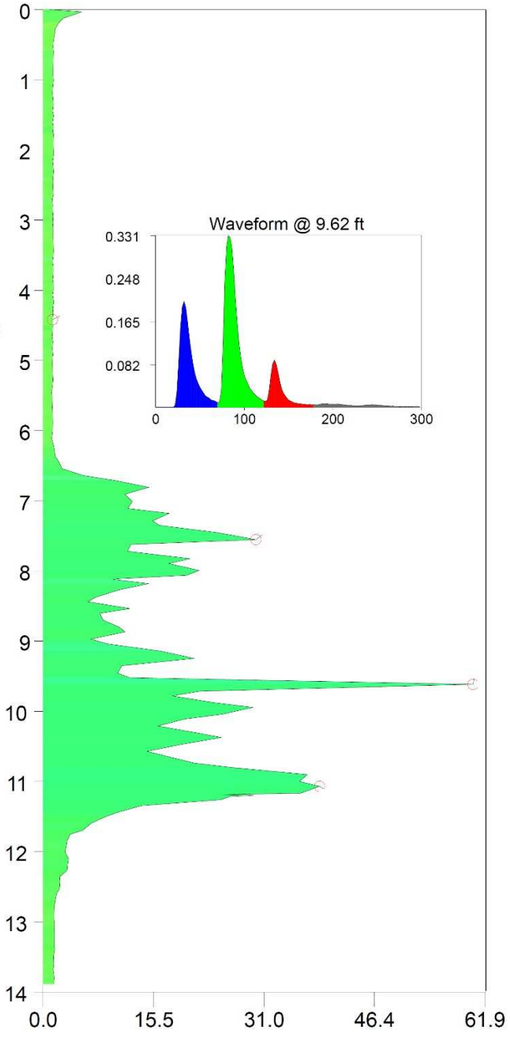
TF-12-02

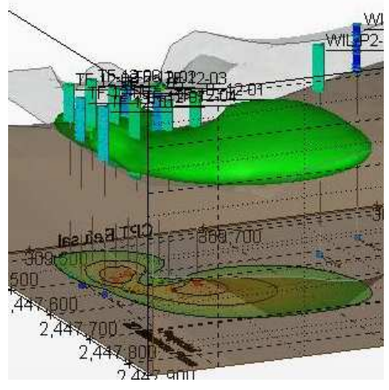


TF-12-03



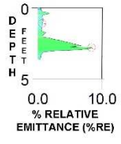
TF-12-04





3-D CONTAMINATION

LOCATION

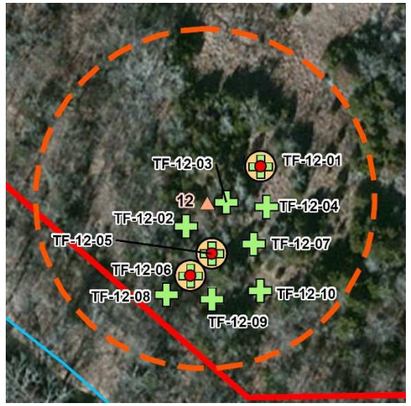


GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
TANK 12
Sheet 4A

014754

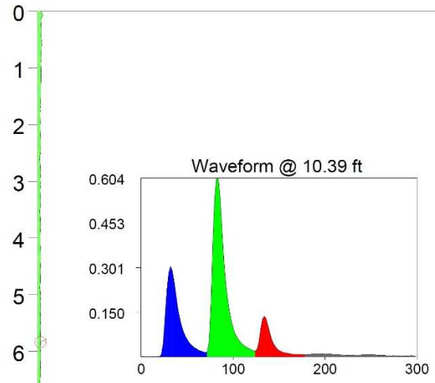


SAMPLE LOCATIONS

- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center

FLUORESCENCE RESPONSE DATA

TF-12-05



GRO	190
DRO	3500
ORO	700
Total	4390

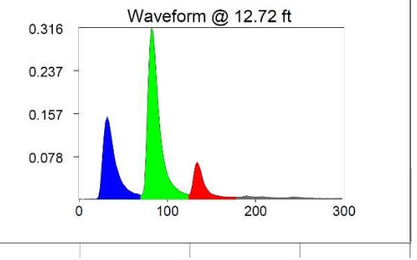
Units - mg/kg
See Sheet 4C
For Analytical Results

TF-12-06

GRO	ND
DRO	77
ORO	41
Total	121

Units - mg/kg
See Sheet 4C
For Analytical Results

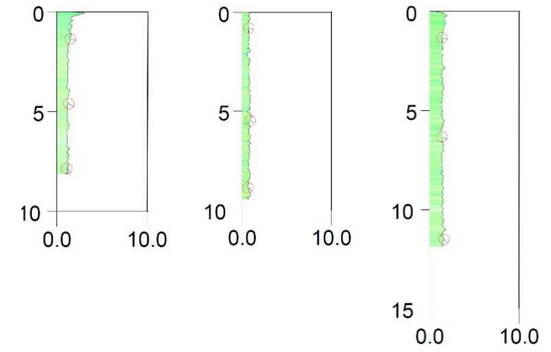
TF-12-07

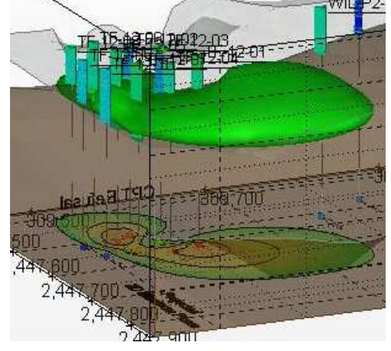


TF-12-08

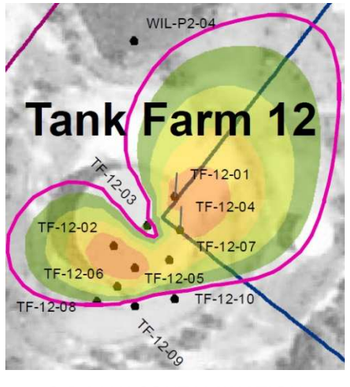
TF-12-09

TF-12-10

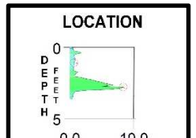




3-D CONTAMINATION



2-D MAX CONTAMINATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
TANK 12
Sheet 4B

014755

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
TF-12-01 7 to 9 Ft bgs	Vinyl chloride	2600	UJ	590	1E6
	Chloroform	2600	U	320	1E6
	Cyclohexane	**2800**		6500000	HI=1
	Carbon tetrachloride	2600	U	650	1E6
	Benzene	2600	U	1200	1E6
	1,2-Dichloroethane	2600	U	460	1E6
	Trichloroethene	2600	U	940	1E6
	Methylcyclohexane	**13000**		NP	HI=1
	1,2-Dichloropropane	2600	U	1000	1E6
	Bromodichloromethane	2600	U	290	1E6
	1,1,2-Trichloroethane	2600	U	1100	1E6
	Dibromochloromethane	2600	U	750	1E6
	1,2-Dibromoethane	2600	U	36	1E6
	m, p-Xylene	2600	U	NP	HI=1
	Isopropylbenzene	**800**	LJ	1900000	HI=1
	1,1,2,2-Tetrachloroethane	2600	U	600	1E6
	1,2-Dibromo-3-chloropropane	2600	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7400	U*	4900	1E6
	Hexachloroethane	3800	U*	1800	1E6
	4-Chloroaniline	7400	U*	2700	1E6
	Hexachlorobutadiene	3800	U*	1200	1E6
	2-Methylnaphthalene	**500**	*	240000	HI=1
	2-Methylnaphthalene	**800**		240000	HI=1
	Hexachlorocyclo-pentadiene	7400	U	1800	HI=1
	2,6-Dinitrotoluene	3800	U*	360	1E6
	Dibenzofuran	**30**	LJ	73000	HI=1
	2,4-Dinitrotoluene	3800	U*	1700	1E6
	Fluorene	**88**		2400000	HI=1
	4-Chlorophenyl-phenyl ether	3800	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7400	U*	5100	HI=1
	Hexachlorobenzene	3800	U*	210	1E6
	Atrazine	7400	U*	2400	1E6
	Phenanthrene	**440**		NP	HI=1
	Anthracene	**77**		18000000	HI=1
	3,3'-Dichlorobenzidine	7400	U*	1200	1E6
	Benzo(a)anthracene	3800	U*	160	1E6
	Chrysene	**35**	LJ	15000	1E6
	Benzo(b)fluoranthene	3800	U*	160	1E6
	Benzo(k)fluoranthene	3800	U*	1600	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	3800	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	3800	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	3800	U*	16	1E6

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
TF-12-05 8 to 10 Ft bgs	Cyclohexane	**440**	Jv	6500000	HI=1
	Methylcyclohexane	**1600**	Jv	NP	HI=1
	Bromodichloromethane	300	UJv	290	1E6
	1,2-Dibromoethane	300	UJv	36	1E6
	Isopropylbenzene	**46**	LJ	1900000	HI=1
	1,2-Dibromo-3-chloropropane	300	UJv	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7500	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	Naphthalene	**240**		130000	HI=1
	4-Chloroaniline	7500	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	**710**	*	240000	HI=1
	2-Methylnaphthalene	**1800**		240000	HI=1
	Hexachlorocyclo-pentadiene	7500	U	1800	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	**230**		2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7500	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7500	U*	2400	1E6
	Phenanthrene	**700**		NP	HI=1
	Anthracene	**120**		18000000	HI=1
	3,3'-Dichlorobenzidine	7500	U*	1200	1E6
	Benzo(a)anthracene	3900	U*	160	1E6
	Chrysene	**72**		15000	1E6
	Benzo(b)fluoranthene	3900	U*	160	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(a)pyrene	38	U	16	1E6
	Benzo(a)pyrene	3900	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Dibenzo(a,h)anthracene	38	U	16	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
TF-12-06 7 to 9 Ft bgs	Di-n-butylphthalate	**88**	LJ	6300000	HI=1
	Butylbenzylphthalate	**910**		290000	1E6
	Benzo(a)anthracene	180	U*	160	1E6
	Bis(2-ethylhexyl)phthalate	**670**		38000	HI=1
	Di-n-octylphthalate	**630**		630000	HI=1
	Benzo(b)fluoranthene	180	U*	160	1E6
	Benzo(a)pyrene	37	U	16	1E6
	Benzo(a)pyrene	180	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	180	U*	160	1E6
	Dibenzo(a,h)anthracene	37	U	16	1E6
	Dibenzo(a,h)anthracene	180	U*	16	1E6

Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

WILCOX REFINERY
TANK 12
Sheet 4C

WILCOX TANKS 34, 35, 36, and 37

Sheet 5

Location

Location Description

- Located in the southwestern corner of the Wilcox facility, comprising most of the southern boundary.
- 1961 Sanborn Map
  - These tanks were not shown on the 1961 Sanborn map. From the oblique aerial photo, it is likely that these tanks were similar to Tanks 14, 15 and 16; 10,500-barrel tanks with 4-ft earthen dikes. The outer shell of Tank 36 is still in place.

Tank 36

Test Pit/Boring Log Observations

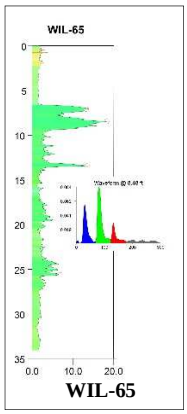
- Boring Logs and Samples
  - TF-34-01 (Sheet 5)
    - 0-1 ft bgs fine to coarse sand and fine to coarse angular gravel (crushed stone roadway)
    - 1-5 ft bgs medium stiff dry brown silt, some fine sand.
    - 5-9.5 ft bgs soft wet dark gray medium plasticity clay, little very fine sand strong hydrocarbon odor.
    - 9.5-20 ft bgs medium stiff dark gray to red and gray dry clay with moist band at 14 to 15 ft bgs.
    - Highest PID reading was between 6 and 8 feet, 130 ppm.
    - Sample Results indicate a wide range of hydrocarbons including benzene, toluene, ethylbenzenes and xylenes (BTEX). This mixture of hydrocarbons is significantly different from other areas. The constituents of crude oil are visible, but there is additional gasoline constituents. This area is directly south of the Sweetening Area and appears to have been impacted by gasoline from that area.

TF-34-01 6-7 ft bgs

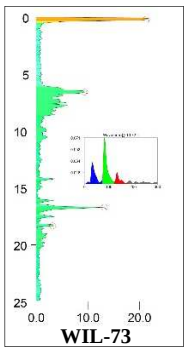
Topography

- Surface drainage for Tank 34 is south through a break in the earthen dike directly towards Sand Creek.
- Surface drainage is confined for Tanks 35, 36 and 37 by the earthen dikes still in evidence.
- The groundwater table was not encountered during subsurface investigation. Evidence was found of several perched layers of moist clays above dryer clays.
- Depth to bedrock/refusal was deeper than 35 feet bgs.

ROST Results (Sheet 5)

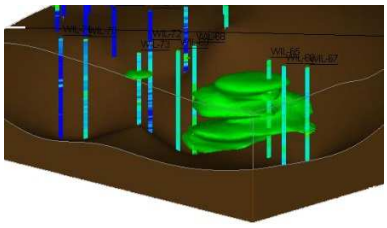


WIL-65



WIL-73

- ROST results indicated contamination at WIL-65 which corresponds to boring TF-34-01. At this location, contamination can be seen between 7 and 10 feet bgs with slight vertical migration downward.
- Trace lenses of similar product can be seen in WIL-71 at 16 ft bgs, WIL-70 at 20 ft bgs, WIL-73 at 7 and 17 ft bgs, and WIL-67 at 23 ft bgs.
- The 3-D interpretation of the ROST data (Sheet 5) indicates contamination is distributed in layers in the area of Tank 34 and 35. Delineation is not complete, further investigation in this area is necessary.



3-D Contamination At Tank 34 and 35
Vertical Exaggeration = 5x

Environmental Impacts/Conclusions

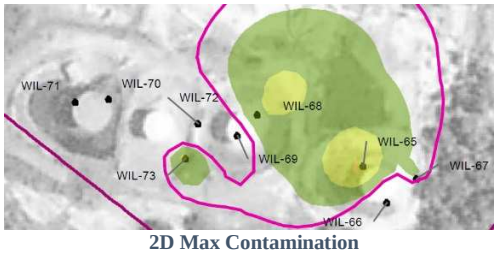
- Constituents of this hydrocarbon mixture are consistent with a mix of gasoline and crude oil.
- Gasoline was not typically stored in the large 10,500 bbl tanks. The prescence of gasoline constituents is most likely due to impact from the Doctor Sweetening Area directly to the north.
- Chloroform, ethylbenzene, and xylenes, as well as the heavier benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(a,h)anthracene were all detected at levels above the project action limits in WIL-65/TF-34-01.
- Impact to surface water and groundwater appears probable. Surface drainage from the break in the earthen dike directly impacts Sand Creek. Also noted in the drainage ditch from the tank area was a valve and pipe, most likely the original storm water drain for the impoundment. This pipe is slowly discharging water to the drainage ditch. The drainage ditch is approximately 10 to 15 feet lower in elevation than the surface elevation at Tank 34.

Tank 34 Impoundment Drain

- Verbal accounts from EPA personnel who traveled Sand Creek during the investigation noted that a hydrocarbon odor was noticeable near the discharge trench from Tank 34.

Data Gaps

- Limited quantitative data from discreet locations were collected.
- ROST detects multi-ring polyaromatic hydrocarbon (PAH) compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks



2D Max Contamination
Shown on 1951 aerial photograph.

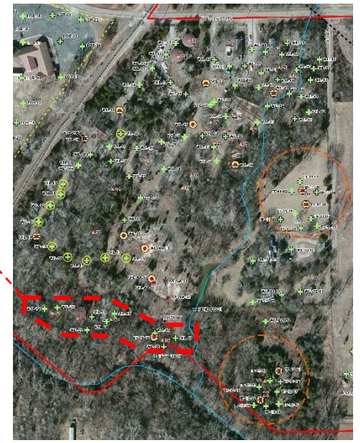
exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.

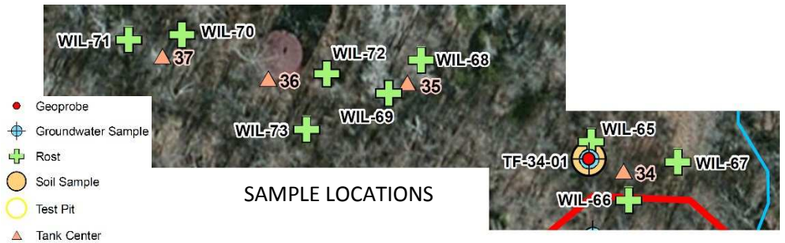
- Groundwater from this area has not been evaluated, but samples were collected from several locations in this area.
- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.

Recommendations

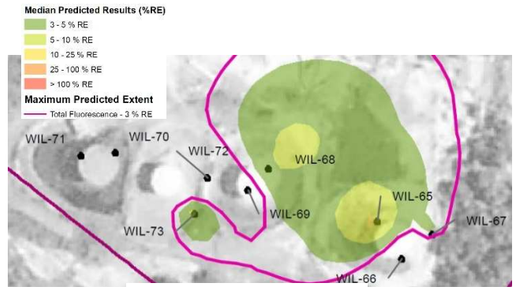
- Further investigation of the contamination in this area is recommended for contaminants related to the Doctor Sweetening Process.
- Further sampling should be performed in known contaminated areas to verify compounds and concentrations.
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination.

This Sheet

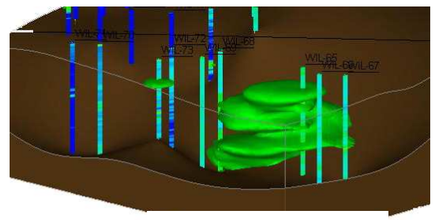




SAMPLE LOCATIONS



2-D MAX PLUME



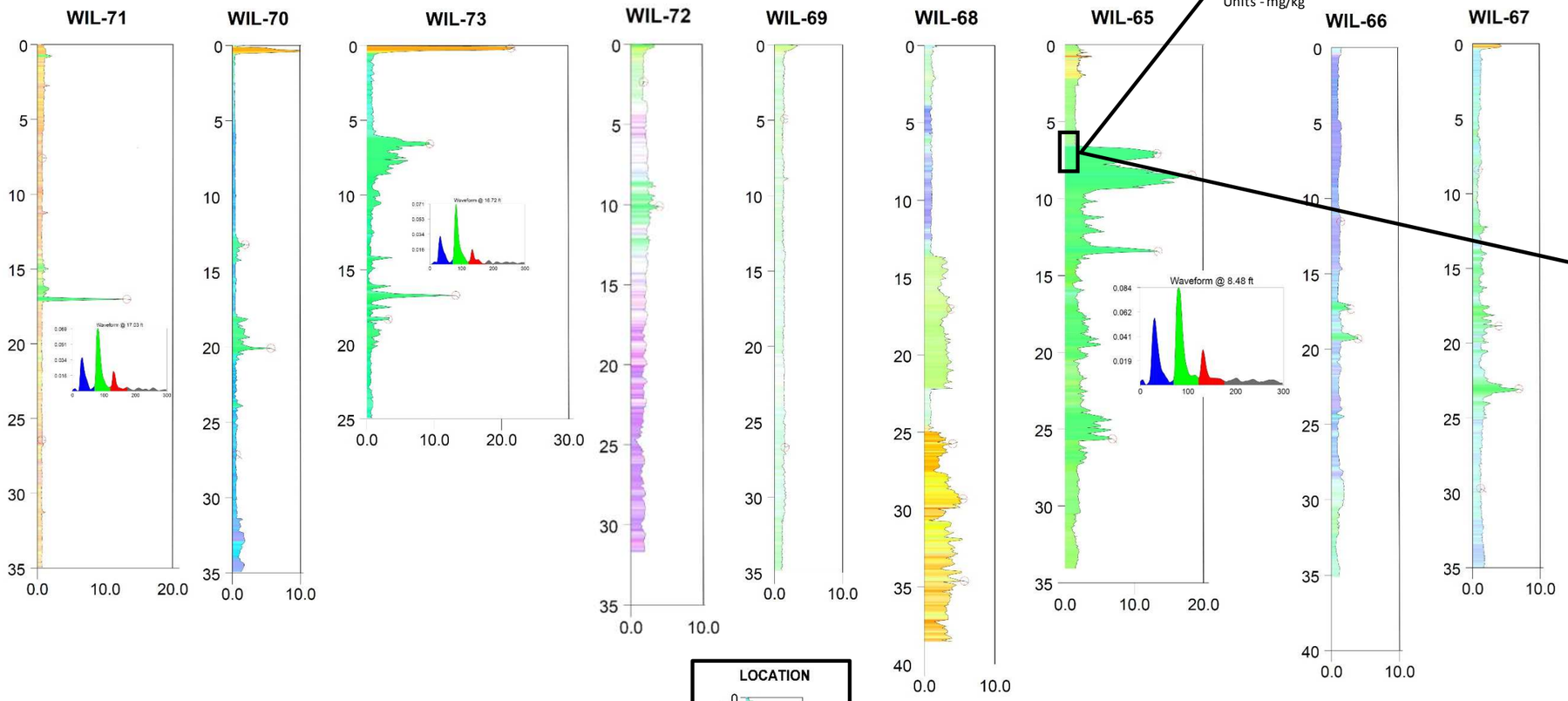
3-D PLUME

See Sheet 2B
For Analytical Results

FLUORESCENCE RESPONSE DATA

GRO	900
DRO	10000
ORO	1700
Total	12600

Units - mg/kg



Loc	Analyte	Result	Q	Action Limit	AC
TF-34-01 6 to 8 Ft bgs	Chloroform	1200		320	1E6
	Cyclohexane	13000	J^	6500000	HI=1
	Benzene	750	J^	1200	1E6
	Methylcyclohexane	32000		NP	HI=1
	Bromodichloromethane	350	U	290	1E6
	Toluene	4100	J^	4900000	HI=1
	1,2-Dibromoethane	350	U	36	1E6
	Ethylbenzene	9200	J^	5800	1E6
	o-Xylene	15000		650000	HI=1
	m, p-Xylene	32000		NP	HI=1
	Isopropylbenzene	3300	J^	1900000	HI=1
	1,2-Dibromo-3-chloropropane	350	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	8400	U*	4900	1E6
	Hexachloroethane	4300	U*	1800	1E6
	Naphthalene	2900	*	130000	HI=1
	Naphthalene	2200	*	130000	HI=1
	4-Chloroaniline	8400	U*	2700	1E6
	Hexachlorobutadiene	4300	U*	1200	1E6
	2-Methylnaphthalene	5200	*	240000	HI=1
	2-Methylnaphthalene	4800		240000	HI=1
	Hexachlorocyclo-pentadiene	8400	U	1800	HI=1
	1,1'-Biphenyl	190	*	47000	HI=1
	2,6-Dinitrotoluene	4300	U*	360	1E6
	2,4-Dinitrotoluene	4300	U*	1700	1E6
	Fluorene	1400	*	2400000	HI=1
	4-Chlorophenyl-phenyl ether	4300	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	8400	U*	5100	1E6
	Hexachlorobenzene	4300	U*	210	1E6
	Atrazine	8400	U*	2400	1E6
	Phenanthrene	4000	*	NP	HI=1
	Phenanthrene	3000	*	NP	HI=1
	Anthracene	690	*	18000000	HI=1
	Fluoranthene	670	*	2400000	HI=1
	Pyrene	5100	*	1800000	HI=1
	3,3'-Dichlorobenzidine	8400	U*	1200	1E6
	Benzo(a)anthracene	620	*	160	1E6
	Benzo(a)anthracene	4300	U*	160	1E6
	Chrysene	1600	*	15000	1E6
	Chrysene	510	*	15000	1E6
	Benzo(b)fluoranthene	300	*	160	1E6
	Benzo(b)fluoranthene	4300	U*	160	1E6
	Benzo(k)fluoranthene	54	*	1600	1E6
	Benzo(k)fluoranthene	4300	U*	1600	1E6
	Benzo(a)pyrene	470	*	16	1E6
	Benzo(a)pyrene	4300	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	51	*	160	1E6
	Indeno(1,2,3-cd)pyrene	4300	U*	160	1E6
	Dibenzo(a,h)anthracene	23	*	16	1E6
	Dibenzo(a,h)anthracene	4300	U*	16	1E6
	Benzo(g,h,i)perylene	110	*	NP	HI=1

Units - µg/kg

LOCATION

DEPTH FEET

% RELATIVE EMITTANCE (%RE)

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
TANKS 34, 35, 36 and 37
Sheet 5

014760

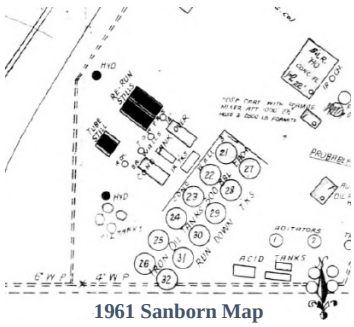
WILCOX LOWER PROCESS AREA

Sheets 6A-6B

Location

Location Description

- Southwest corner of the Wilcox Refinery Property.
- 1961 Sanborn Map (See Sheet 8A)
  - Process Area including:
    - Tube Still, Re-Run Stills
    - Run Down Tanks
    - Condensate Tanks
  - Tank Sizes:
    - 12 – 500 Barrel run down tanks.



1961 Sanborn Map
Area contains run down tanks, tube still and re-run stills with other process equipment.

Test Pit/Boring Log Observations

- Test Pit Observations
  - Dug to 1.5 - 2 feet below ground surface (bgs) to allow access for ROST.
  - Many pipe runs just below the surface
  - Most pits contain a thin 4-6 inch layer of topsoil followed by a reddish brown low plasticity clay.
  - Several pits contained a “slag” material either in chunks or in a thin layer.
    - Slag found in: WIL-06, WIL-11, and WIL-13.

WIL-06 Test Pit
Picture shows black slag like material at 7-8 inches bgs. (At end of PID strap)

WIL-11 Test Pit
Picture shows black slag like material on surface and through top 12 inches.

- Boring Logs and Samples
  - WIL-14 (Sheet 6A)
    - 0-9 ft bgs under a thin layer of topsoil, material was stiff, dry, low plasticity red clay with some very fine silt and sand.
    - 9-11 ft bgs contained stiff, dry, white and red non-plastic silty clays and silt.
    - PID readings were non-detect.

WIL-14 8-9 ft bgs

- WIL-20 (Sheet 6A)
  - 0-10 ft bgs contained stiff dry clays ranging from gray at the surface, changing to brown, dark gray, red and then white. Traces of fine sand throughout. Weathered sandstone was noted at the bottom of the boring.
  - Maximum PID reading was 60 ppm between 8 and 9 ft bgs.

- WIL-AA-10 (Sheet 6B)
  - 0-9 ft bgs stiff dry low plasticity red clay
  - 9-10 ft bgs fine sand and silt, weathered sandstone fragments.
  - Highest PID readings between 8 and 9 ft, 24 ppm
  - Entire core had strong phenolic odor.
  - Sample Results indicate the presence of phenolic compounds but below action limits (See Sheet 6B). This core is related to the sweetening process area to the east of the Lower Process Area. See Sweetening Process Area.

WIL-AA_10
9-10 ft bgs

- WIL-AA-11 (Sheet 6A)
  - 0-10 ft bgs stiff dry fine gray-brown silt.
  - 10-13 ft bgs medium stiff dry red sandy silt
  - 13-20 ft bgs stiff dry red to gray medium to high plasticity clay.
  - Entire core had strong phenolic odor.
  - Highest PID reading between 10 and 12 feet, 5 ppm.
  - Sample Results indicate high levels of phenolic compounds (Sheet 6B). This core is related to the sweetening process area to the east of the Lower Process Area. See Tank 34 area results.
  - Sample Results indicate a wide range of hydrocarbons including BTEX. The constituents of crude oil are visible, but there is additional gasoline constituents. This location is in the Sweetening Area and appears to have been impacted by gasoline from that area.
  - No constituents exceed project action limits.

Topography

- Surface drainage is toward the south/southwest towards Sand Creek.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was generally between 10 and 25 feet bgs.

ROST Results

- Little to no contamination was noted in this area.

Environmental Impacts/Conclusions

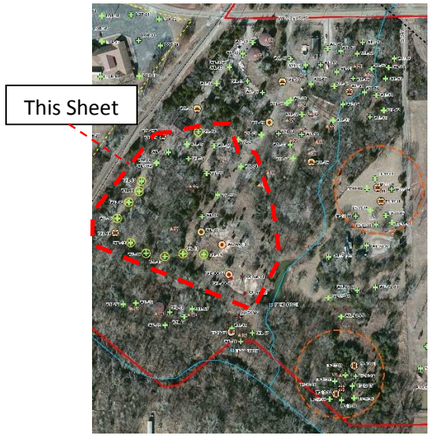
- Of concern is the “Sweetening Process Area” to the east of this area. The presence of phenols in conjunction with high levels of Pb and the presence of sodium (Na) in the soils to the east of the process area indicate that process materials from the sweetening process have impacted the subsurface. See Sweetening Process Area for more details.

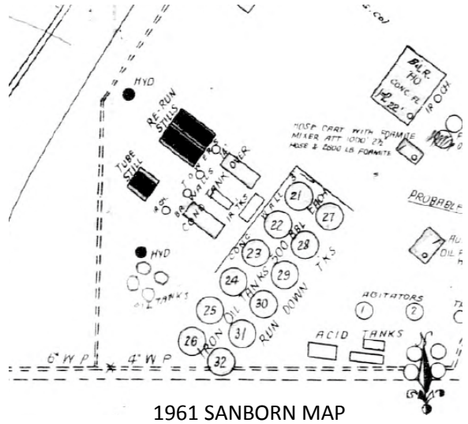
Data Gaps

- ROST detects multi-ring PAH compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST. Future investigation should utilize sampling techniques capable of detecting single ring compounds such as BTEX.
- Actual contaminant levels have not been adequately defined. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Groundwater from this area has not been evaluated.
- Due to heavy growth, concrete building foundations and debris, the interior of the process area could not be accessed for ROST testing. Sampling was designed to determine if material from the process area was impacting surrounding areas. No indication of impact was found. The area inside the process area could still contain residual contamination.

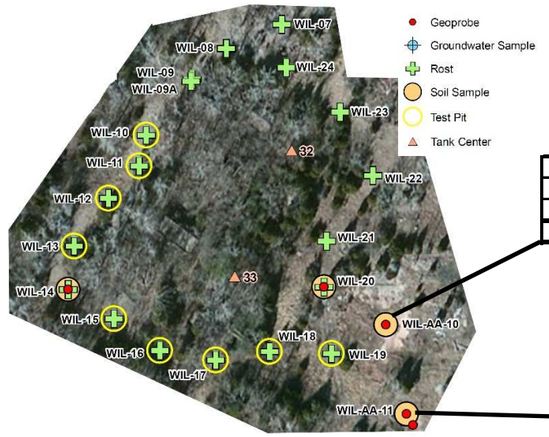
Recommendations

- Further sampling should be performed in the center of the process area, after demolition and clearing, to verify that no contamination remains.





1961 SANBORN MAP



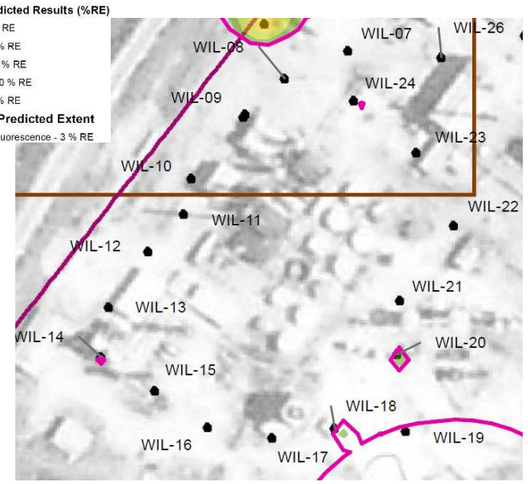
GRO	5.1
DRO	300
ORO	89
Total	394

Units - mg/kg
See Sheet 6B
For Analytical Results

GRO	ND
DRO	33
ORO	ND
Total	33

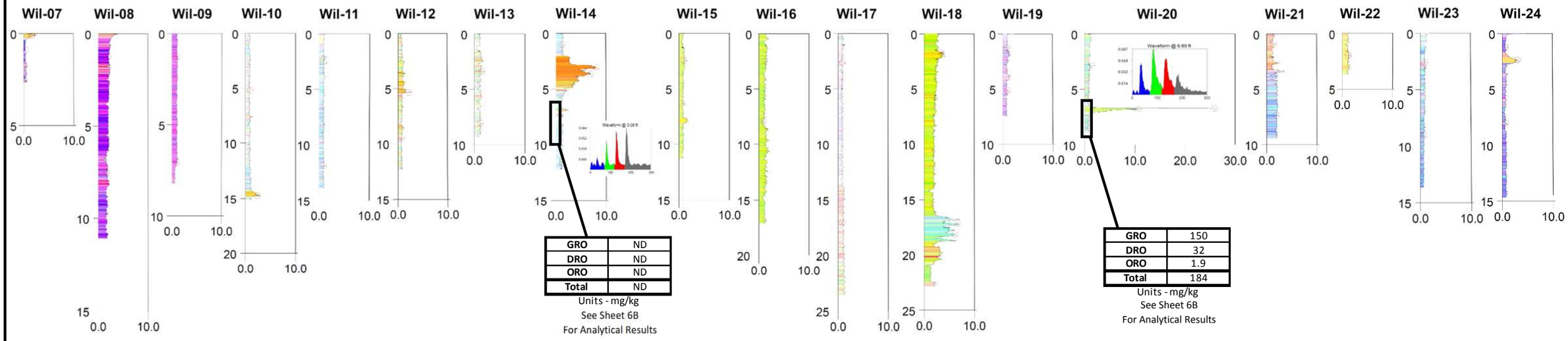
Units - mg/kg
See Sheet 6B
For Analytical Results

SAMPLE LOCATIONS



2D MAX PLUME

FLUORESCENCE RESPONSE DATA



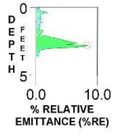
GRO	ND
DRO	ND
ORO	ND
Total	ND

Units - mg/kg
See Sheet 6B
For Analytical Results

GRO	150
DRO	32
ORO	1.9
Total	184

Units - mg/kg
See Sheet 6B
For Analytical Results

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
LOWER PROCESS AREA
Sheet 6A

014764

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
WIL-14 7 to 10 Ft bgs	Acetone	**8.1**	LJ	61000000	HI=1
	Naphthalene	**44**	*	130000	HI=1
	2-Methylnaphthalene	**56**	*	240000	HI=1
	Phenanthrene	**35**	LJ	NP	HI=1
	Benzo(a)anthracene	200	U*	160	1E6
	Benzo(b)fluoranthene	200	U*	160	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	200	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	200	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	200	U*	16	1E6

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
WIL-AA-10 8 to 10 Ft bgs	Acetone	**140**		61000000	HI=1
	2-Butanone	**38**		27000000	HI=1
	Cyclohexane	**6.3**		6500000	HI=1
	Benzene	**4.6**	LJ	1200	1E6
	Methylcyclohexane	**23**		NP	HI=1
	Toluene	**9**		4900000	HI=1
	Ethylbenzene	**8.9**		5800	1E6
	o-Xylene	**12**		650000	HI=1
	m, p-Xylene	**25**		NP	HI=1
	Isopropylbenzene	**2.3**	LJ	1900000	HI=1
	Phenol	**5100**	LJ	19000000	HI=1
	2-Methylphenol	**28000**		3200000	HI=1
	2,2'-Oxybis(1-chloropropane)	7500	U*	4900	1E6
	4-Methylphenol	**27000**		6300000	HI=1
	Hexachloroethane	3800	U*	1800	1E6
	2,4-Dimethylphenol	**50000**		1300000	HI=1
	4-Chloroaniline	7500	U*	2700	1E6
	Hexachlorobutadiene	3800	U*	1200	1E6
	Hexachlorocyclo-pentadiene	7500	U	1800	HI=1
	2,6-Dinitrotoluene	3800	U*	360	1E6
	2,4-Dinitrotoluene	3800	U*	1700	1E6
	4-Chlorophenyl-phenyl ether	3800	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7500	U*	5100	HI=1
	Hexachlorobenzene	3800	U*	210	1E6
	Atrazine	7500	U*	2400	1E6
	3,3'-Dichlorobenzidine	7500	U*	1200	1E6
	Benzo(a)anthracene	3800	U*	160	1E6
	Benzo(b)fluoranthene	3800	U*	160	1E6
	Benzo(k)fluoranthene	3800	U*	1600	1E6
	Benzo(a)pyrene	38	U	16	1E6
	Benzo(a)pyrene	3800	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	3800	U*	160	1E6
	Dibenzo(a,h)anthracene	38	U	16	1E6
	Dibenzo(a,h)anthracene	3800	U*	16	1E6

Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

Loc	Analyte	Result	Q	Action Limit	AC
WIL-20 7 to 9 Ft bgs	Acetone	**50**		61000000	HI=1
	2-Butanone	**13**		27000000	HI=1
	Cyclohexane	**35**	Jv	6500000	HI=1
	Benzene	**1.4**	LJ	1200	1E6
	Methylcyclohexane	**100**	Jv	NP	HI=1
	Ethylbenzene	**43**		5800	1E6
	Isopropylbenzene	**25**		1900000	HI=1
	Naphthalene	**56**	*	130000	HI=1
	2-Methylnaphthalene	**160**	*	240000	HI=1
	1,1'-Biphenyl	**16**	LJ	47000	HI=1
	Acenaphthene	**23**	LJ	3600000	HI=1
	Fluorene	**29**	LJ	2400000	HI=1
	Phenanthrene	**76**	*	NP	HI=1
	Phenanthrene	**170**		NP	HI=1
	Anthracene	**22**	LJ	18000000	HI=1
	Fluoranthene	**23**	LJ	2400000	HI=1
	Pyrene	**45**	*	1800000	HI=1
	Pyrene	**91**		1800000	HI=1
	Benzo(a)anthracene	**39**	LJ	160	1E6
	Benzo(a)anthracene	200	U*	160	1E6
	Chrysene	**36**	*	15000	1E6
	Chrysene	**86**		15000	1E6
	Bis(2-ethylhexyl)phthalate	**19**	LJ	38000	HI=1
	Benzo(b)fluoranthene	**26**	LJ	160	1E6
	Benzo(b)fluoranthene	200	U*	160	1E6
	Benzo(k)fluoranthene	**11**	LJ	1600	1E6
	Benzo(a)pyrene	**21**	LJ	16	1E6
	Benzo(a)pyrene	200	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	**21**	LJ	160	1E6
	Indeno(1,2,3-cd)pyrene	200	U*	160	1E6
	Dibenzo(a,h)anthracene	**18**	LJ	16	1E6
	Dibenzo(a,h)anthracene	200	U*	16	1E6
	Benzo(g,h,i)perylene	**26**	LJ	NP	HI=1

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
WIL-AA-11 6 to 8 Ft bgs	Acetone	**82**		61000000	HI=1
	2-Butanone	**29**		27000000	HI=1
	Benzene	**4.1**	LJ	1200	1E6
	Toluene	**9.8**		4900000	HI=1
	o-Xylene	**4.6**	LJ	650000	HI=1
	m, p-Xylene	**7.4**		NP	HI=1
	Phenol	**1300**	LJ	19000000	HI=1
	2-Methylphenol	**6200**		3200000	HI=1
	4-Methylphenol	**5000**		6300000	HI=1
	Hexachloroethane	2000	U*	1800	1E6
	2,4-Dimethylphenol	**7100**		1300000	HI=1
	4-Chloroaniline	3900	U*	2700	1E6
	Hexachlorobutadiene	2000	U*	1200	1E6
	Hexachlorocyclo-pentadiene	3900	U	1800	HI=1
	2,6-Dinitrotoluene	2000	U*	360	1E6
	2,4-Dinitrotoluene	2000	U*	1700	1E6
	Hexachlorobenzene	2000	U*	210	1E6
	Atrazine	3900	U*	2400	1E6
	3,3'-Dichlorobenzidine	3900	U*	1200	1E6
	Benzo(a)anthracene	2000	U*	160	1E6
	Benzo(b)fluoranthene	2000	U*	160	1E6
	Benzo(k)fluoranthene	2000	U*	1600	1E6
	Benzo(a)pyrene	41	U	16	1E6
	Benzo(a)pyrene	2000	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	2000	U*	160	1E6
	Dibenzo(a,h)anthracene	41	U	16	1E6
	Dibenzo(a,h)anthracene	2000	U*	16	1E6

Units - µg/kg

WILCOX REFINERY
LOWER PROCESS AREA
Sheet 6B

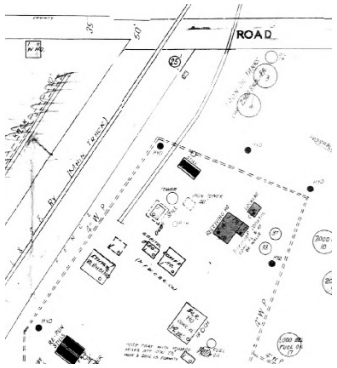
WILCOX UPPER PROCESS AREA

Sheets 7A-7B

Location

Location Description

- Northwest corner of the Wilcox Refinery Property.
- 1923 Sanborn Map
  - Tool shed, office/laboratory
  - Well and pump
  - Boiler and cooling tower.
- 1961 Sanborn Map (See Inset)
  - Process Area including:
    - Stills
    - "Iron Oil Tanks"
    - Towers
    - Receiving building
    - Ethyl blending building
  - Tank Sizes:
    - 2 – 2,500 Barrel tanks.



1961 Sanborn Map
Area contains stills, a tower, tanks, and ethyl blending area.

Test Pit/Boring Log Observations

- Test Pit Observations
  - Dug to 1.5 - 2 feet bgs to allow access for ROST.
  - Many pipe runs just below the surface
  - Most pits contain a thin 4-6 inch layer of topsoil followed by a reddish brown low plasticity clay.
  - Several pits contained a "slag" material either in chunks or in a thin layer.
    - Slag found in: WIL-06
- Boring Logs and Samples
  - WIL-05 (Sheet 7A)
    - 0-2 ft bgs under a thin layer of topsoil, material was stiff, dry, low plasticity brown clay.
    - 2-6.5 ft bgs stiff dry red medium plasticity clay.
    - 6.5-14 ft bgs soft dry gray and red clay and fine sand, non-plastic. Wet at 10 ft bgs.
    - 14-16 ft bgs stiff dry low plasticity red and gray clay
    - Maximum PID reading was 4.5 ppm between 12 and 14 feet.
    - Sample results (Sheet 7B) were minimal, with only methylene chloride, phenanthrene, and pyrene being detected, well below the project action limits. The type of source material cannot be determined from this sample.
  - WIL-25 (Sheet 7A)
    - 0-2.5 ft bgs dark brown to brown soft clay little fine sand and slag.
    - 2.5-14 ft bgs dry, red, low plasticity clay with some fine sand.
    - 14-15 ft bgs stiff dry red and gray low plasticity clay.

WIL-06 Test Pit
Picture shows black slag like material at 7-8 inches bgs. (At end of PID strap)

WIL-05 14-15 ft bgs

- 15-20 ft bgs not logged due to wet, non-cohesive sandy "soup". May have encountered water table or perched aquifer.
- Maximum PID reading was 5.5 ppm between 8 and 10 ft bgs.
- Sample results (Sheet 7B) were minimal, with only methylene chloride, naphthalene, and 2-methylnaphthalene being detected, well below the project action limits. The type of source material cannot be determined from this sample.

o WIL-29 (Sheet 7A)

- 0-1 ft bgs thin layer of topsoil on dark gray sandy silt, some slag.
- 1-2 ft bgs medium stiff dry medium plasticity red clay with a trace of very fine sand.
- 2-2.5 dark gray fine sand and silt, hydrocarbon odor noted.
- 2.5-6.5 medium stiff dry gray clay and fine sand. Sweet hydrocarbon odor noted.
- 6.5-7.8 soft gray medium plasticity clay. Strong sweet hydrocarbon odor noted.
- 7.8-10 stiff dry reddish-brown and gray non-plastic clay.
- Maximum PID reading was 420 ppm between 6 and 8 ft bgs.
- Sample results (Sheet 7B) indicate the presence of a wide range of hydrocarbons, most likely from a crude oil or mixed contamination. Both light and heavy hydrocarbons were detected above project action limits:
  - Benzene, ethylbenzene, xylenes
  - Benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenzo(a,h)anthracene.

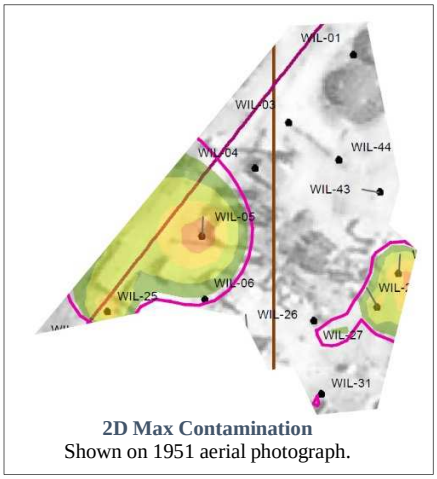
WIL-29
6-7 ft bgs

Topography

- Surface drainage is toward the south/southwest towards the railroad bed.
- The groundwater table may have been encountered during subsurface investigation at WIL-25 at between 15-20 ft bgs.
- Depth to bedrock/refusal was generally between 10 and 18 feet bgs.

ROST Results (Sheet 7A)

- Contamination was indicated in WIL-05, WIL-25, WIL-28 and WIL-29.
- Based on the 2-D max contamination model, it is probably that the contamination in WIL-05 and WIL-25 originated on the Lorraine Site. The topography, including the railroad bed indicates a dip in the bedrock from the Lorraine Site towards the Wilcox site. It is probably that residual contamination has traveled down the bedrock slope onto the Wilcox site.
- Contamination in WIL-28 and WIL-29 appears to be a continuation of the contamination from the Product Storage Area to the northeast. The contamination is shallow, between 3 to 10 ft bgs.



2D Max Contamination
Shown on 1951 aerial photograph.

Environmental Impacts/Conclusions

- The contamination in this area is primarily due to impacts from other areas addressed in this investigation.
- Impact from the Lorraine contamination may be impacting groundwater under the railroad bed. Drainage from the railroad bed is to the south/southwest directly to Sand Creek.
- Impact from the product storage area contamination is discussed in the Product Storage Area section.
- Minimal impact was noted from the ethyl blending area.

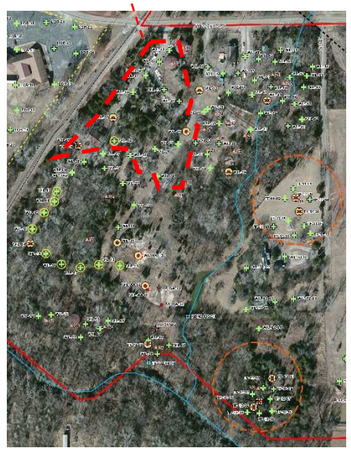
Data Gaps

- The results from WIL-05 highlight the difficulties in comparing standard sampling techniques versus *in-situ* techniques. Due to sample volume requirements and other limitations, it is very difficult to sample thin layers of contamination without dilution. Also, the sampler cannot ensure that the exact same interval has been sampled due to inherent errors built into coring techniques including fall back, and uneven compression of cores.
- ROST detects multi-ring PAH compounds. These compounds are present in all refined fractions, e.g. gasoline, kerosene, fuel oils, and lubricating oils which makes ROST particularly suitable for assessing these mixtures. Of notable exception, however, are single ring aromatic compounds, e.g. benzene, toluene, ethylbenzene, and xylene etc. which most refineries separate into their pure forms. Of these compounds, Sanborn maps indicate that there were product storage tanks exclusively for benzene. If there is a release of pure benzene or other single ring compound, it would not be detected by ROST.
- Groundwater from this area has not been evaluated.
- Due to heavy growth, concrete building foundations and debris, the interior of the process area could not be accessed for ROST testing. Sampling was designed to determine if material from the process area was impacting surrounding areas. No indication of impact from the operation of this area was found. The area inside the process area could still contain residual contamination.
- The ethyl blending area remains a concern due to the inability to investigate the subsurface under the building. Tetraethyl lead (TEL) was used to blend with gasoline to control the combustion rate of the fuel. TEL is extremely hazardous.

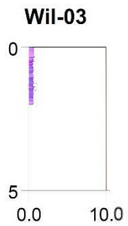
Recommendations

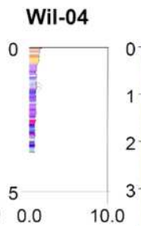
- Further sampling should be performed in the center of the process area, after demolition and clearing, to verify that no contamination remains.
- Further sampling should be performed under the ethyl blending building after demolition and clearing to verify that no TEL or other contamination remains.

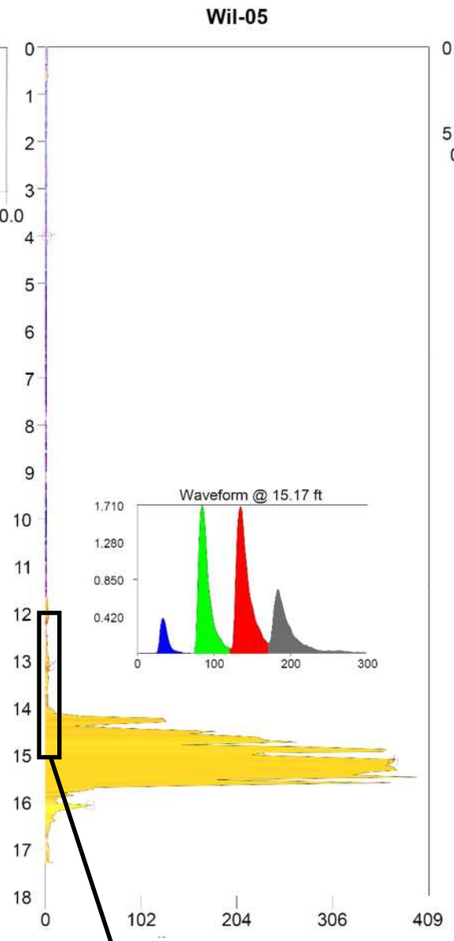
This Sheet



FLUORESCENCE RESPONSE DATA

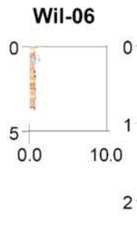


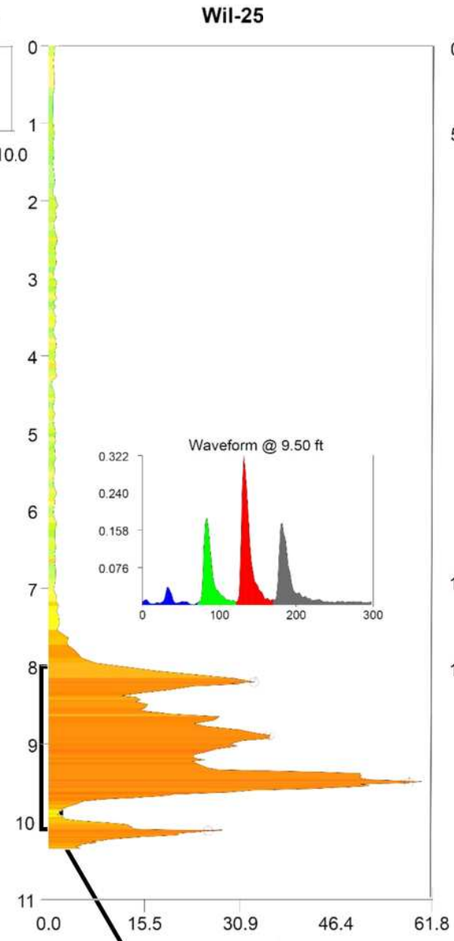




GRO	ND
DRO	2.4 J
ORO	ND
Total	2.4 J

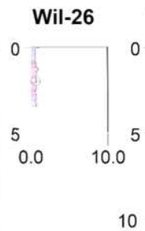
Units - mg/kg
See Sheet 7B
For Analytical Results

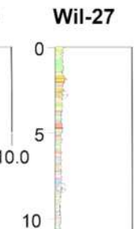


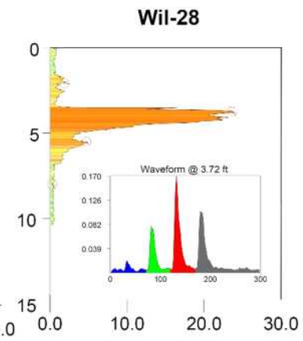


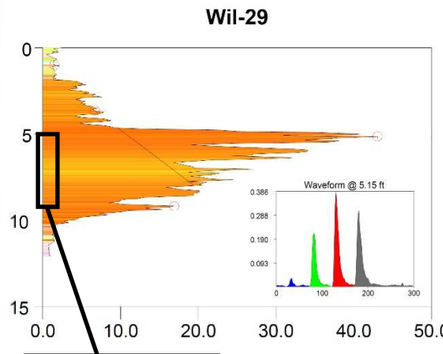
GRO	3.5
DRO	920
ORO	250
Total	1174

Units - mg/kg
See Sheet 7B
For Analytical Results



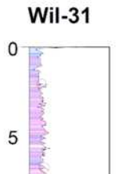


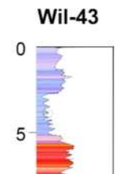


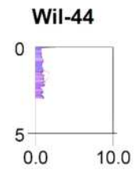


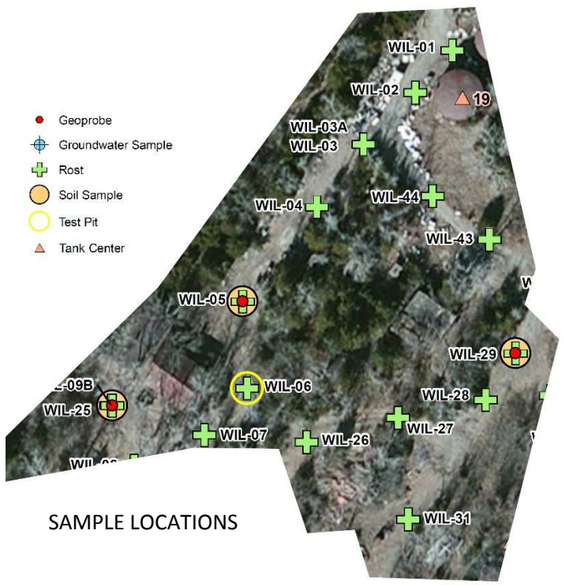
GRO	1900
DRO	15000
ORO	560
Total	17460

Units - mg/kg
See Sheet 7B
For Analytical Results

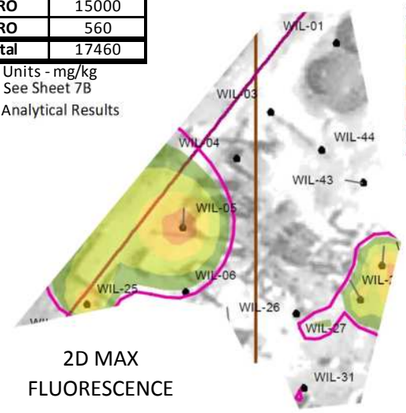








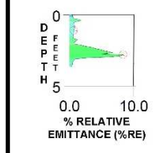
SAMPLE LOCATIONS



2D MAX
FLUORESCENCE

Median Predicted Results (%RE)
- 3 - 5 % RE
- 5 - 10 % RE
- 10 - 25 % RE
- 25 - 100 % RE
- > 100 % RE

Maximum Predicted Extent
- Total Fluorescence - 3 % RE



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014769

WILCOX REFINERY
UPPER PROCESS AREA
Sheet 7A

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
WIL-29 5 to 8 Ft bgs	Cyclohexane	15000		6500000	HI=1
	Benzene	1500		1200	1E6
	Methylcyclohexane	26000		NP	HI=1
	1,2-Dichloropropane	620		1000	1E6
	Toluene	1700		4900000	HI=1
	1,2-Dibromoethane	250	U	36	1E6
	Ethylbenzene	7400		5800	1E6
	o-Xylene	2000		650000	HI=1
	m, p-Xylene	6100		NP	HI=1
	Isopropylbenzene	1700		1900000	HI=1
	1,2-Dibromo-3-chloropropane	250	U	5.3	1E6
	1,4-Dioxane	3.4	LJ	5300	1E6
	2,2'-Oxybis(1-chloropropane)	7600	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	Naphthalene	8300	*	130000	HI=1
	Naphthalene	52000	J	130000	HI=1
	4-Chloroaniline	7600	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	92000	*	240000	HI=1
	2-Methylnaphthalene	17000	*	240000	HI=1
	Hexachlorocyclo-pentadiene	7600	U	1800	HI=1
	1,1'-Biphenyl	520	*	47000	HI=1
	1,1'-Biphenyl	200	J	47000	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	Acenaphthene	2900	*	3600000	HI=1
	Acenaphthene	5400		3600000	HI=1
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	3400	*	2400000	HI=1
	Fluorene	6700		2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7600	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7600	U*	2400	1E6
	Phenanthrene	9500	*	NP	HI=1
	Phenanthrene	19000		NP	HI=1
	Anthracene	4900	*	18000000	HI=1
	Anthracene	4500		18000000	HI=1
	Fluoranthene	1000	*	2400000	HI=1
	Fluoranthene	1700		2400000	HI=1
	Pyrene	6800	*	1800000	HI=1
	Pyrene	6800		1800000	HI=1
	3,3'-Dichlorobenzidine	7600	U*	1200	1E6
	Benzo(a)anthracene	1300	*	160	1E6
	Benzo(a)anthracene	2300		160	1E6
	Chrysene	4000	*	15000	1E6
	Chrysene	2600	*	15000	1E6
	Benzo(b)fluoranthene	470	*	160	1E6
	Benzo(b)fluoranthene	750		160	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(k)fluoranthene	160		1600	1E6
	Benzo(a)pyrene	550	*	16	1E6
	Benzo(a)pyrene	1000		16	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Indeno(1,2,3-cd)pyrene	180		160	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6
	Dibenzo(a,h)anthracene	200		16	1E6
	Benzo(g,h,i)perylene	330		NP	HI=1

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
WIL-05 12 to 15 Ft bgs	Acetone	18		61000000	HI=1
	1,2-Dibromo-3-chloropropane	5.7	U	5.3	1E6
	Naphthalene	22	*	130000	HI=1
	2-Methylnaphthalene	30	*	240000	HI=1
	Benzo(a)anthracene	200	U*	160	1E6
	Benzo(b)fluoranthene	200	U*	160	1E6
	Benzo(a)pyrene	40	U	16	1E6
	Benzo(a)pyrene	200	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	200	U*	160	1E6
	Dibenzo(a,h)anthracene	40	U	16	1E6
	Dibenzo(a,h)anthracene	200	U*	16	1E6

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
WIL-25 8 to 10 Ft bgs	Methylene chloride	38	LJ	57000	1E6
	1,2-Dibromoethane	280	U	36	1E6
	1,2-Dibromo-3-chloropropane	280	U	5.3	1E6
	Hexachlorocyclo-pentadiene	1900	U	1800	HI=1
	2,6-Dinitrotoluene	970	U*	360	1E6
	Hexachlorobenzene	970	U*	210	1E6
	Phenanthrene	32	LJ	NP	HI=1
	Pyrene	49		1800000	HI=1
	3,3'-Dichlorobenzidine	1900	U*	1200	1E6
	Benzo(a)anthracene	970	U*	160	1E6
	Benzo(b)fluoranthene	970	U*	160	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	970	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	970	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	970	U*	16	1E6

Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

WILCOX REFINERY
UPPER PROCESS AREA
Sheet 7B

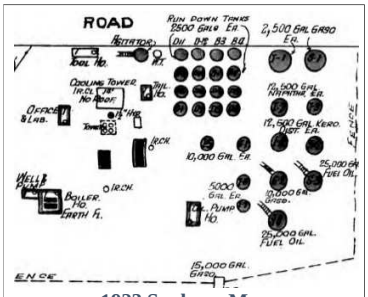
WILCOX PRODUCT STORAGE AREA

Sheets 8A-8G

Location

Location Description

- Northeast corner of the Wilcox Refinery Property.
- 1923 Sanborn Map (See Sheet 8A)
  - Entire Wilcox Operation in 1923
  - Process equipment including distillation tower.
  - Run-Down Tanks
  - Storage for:
    - Gasoline, Kerosene, Naphthalene, Fuel Oils
  - Tank Sizes:
    - 2,500 gallon
    - 10,000
    - 12,500 gallon
    - 25,000 gallon
  - Boiler House and Cooling Tower
- 1961 Sanborn Map (See Sheet 8A)
  - Storage for:
    - Gasoline, other products not listed
  - Tank Sizes:
    - 2,000 Barrels
    - 2,500 Barrels
    - 5,000 Barrels
    - Horizontal storage tanks of unknown size
  - Laboratories, Offices, Loading Area
- Existing Structures (Sheet 8A)
  - Office building (immediately west of location WIL-48) currently being utilized as a rental property.
  - U-shaped driveway was access for loading tanker trucks



1923 Sanborn Map
Showing entire refining operation. See Sheet 8A for larger size.

1961 Sanborn Map
Area is now product storage and loading area. See Sheet 8A for larger size.

1956 Aerial Photograph

Test Pit/Boring Log Observations

- Test Pit Observations
  - Dug to 2-3 feet bgs to allow access for ROST.
  - Many pipe runs just below the surface
  - Widespread use of a tarry substance most likely as a road base or fill material.
    - Heavy petroleum odor.
    - Thick viscous material.

WIL-54 Test Pit
Shiny surface was created by an excavator smearing the tarry substance believed to have been used as a road base or fill material.

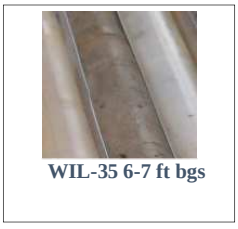
    - Dries hard at the surface.
- Boring Logs and Samples
    - WIL-30 (Sheet 8D)
        - 0-8.5 ft bgs reddish fine silt, non-plastic, changing to grey in color at 4 ft.
        - 8.5–14 ft bgs red and white medium stiff sandy clay.
        - Highest PID Readings between 6–8 ft (100 to 200 ppm)
        - ROST results highest between 4 and 7 ft (Sheet 8D)
        - Sample results (Sheet 8E) indicate wide range of organics. Constituents are consistent with crude oil or multiple mixed hydrocarbon products.

WIL-30 7-8 ft bgs

    - WIL-41 (Sheet 8D)
        - 0-4.5 ft bgs silt and sandy silt
        - 4.5-5.5 ft bgs dark grey clay
        - 5.5-8.5 ft bgs soft wet brown clay.
        - 8.5-13 ft bgs soft gray wet sandy clay
        - 13-15 ft bgs stiff dry red fine sand and silt.
        - Highest PID readings between 6 and 8 ft, 60 to 80 ppm
        - Highest ROST Results (Sheet 8D) between 7 and 10 feet.
        - Sample Results (Sheet 8E) indicate wide range of organics. Constituents are consistent with crude oil or multiple mixed hydrocarbon products.

WIL-41 9-10 ft bgs

    - WIL-35 (Sheet 8G)
        - 0-6.5 ft bgs soft dry red-brown clay, trace fine sand
        - 6.5-8.5 ft bgs med stiff dry gray sandy clay. Strong hydrocarbon odor.
        - 8.5-15 ft bgs med stiff dry gray low plasticity clay.
        - Highest PID reading between 6 and 8 feet, 1999 ppm.
        - Highest ROST results between 6 and 14 ft bgs.
        - Sample Results indicate levels of Benzenes, ethylbenzenes and xylenes as well as benzo(a)pyrenes and other heavier compounds above the project action limits.
        - Constituents imply a mix of residual gasoline compounds possibly with crude or other product residuals.

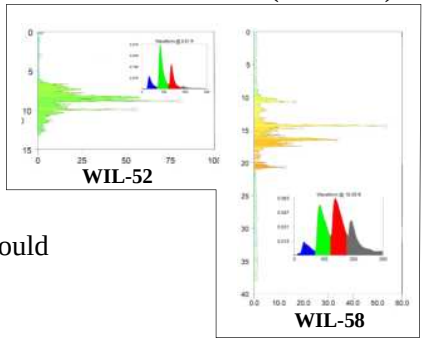

WIL-35 6-7 ft bgs

Topography

- Surface drainage is toward the creek that runs down the eastern portion of this area.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal varies greatly through this area as shown on the 3D visualization (Sheet 8A)

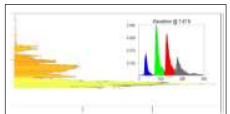
ROST Results

- Wide variety of organic compound mixes in this area.
- WIL-52 and WIL-58 (Sheet 8B) clearly indicate the presence of different products.
    - WIL-52 resembles a weathered crude oil with large peaks of the green, red and grey zones. The blue, which would indicate lighter hydrocarbons, is visible but reduced.
    - WIL-58 resembles a diesel fuel type product.


WIL-52

WIL-58

- WIL-47 (Sheet 8C) indicates a possible two separate products. The upper product, similar to the product in WIL-45 contains a slightly heavier mix of hydrocarbons than the lower product, which contains more of the lighter hydrocarbons.
- Indicates residuals of multiple hydrocarbon mixes throughout.
- Product is being retained in the sandy clay lenses.



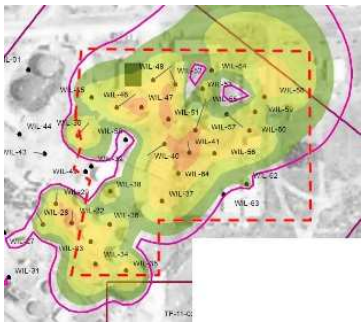
WIL-47

Environmental Impacts/Conclusions

- Significant amounts of hydrocarbon compounds above site action limits.
- Multiple types of hydrocarbon compounds mixes.
- Product is bound mainly in less permeable sandy clay lenses bounded by confining clay lenses.
- Potential impact to tributary to Sand Creek.
- Possible impact to the residential building through vapor intrusion.
- Minimal impact to groundwater due to confining clay lenses.

Data Gaps

- Analytical results indicated the presence of BTEX compounds. It is common in refineries to store pure benzene and similar products in product storage and run-down tanks. Pockets of pure benzene or other products could exist and should be taken into consideration for future investigation and remediation activities.
- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.



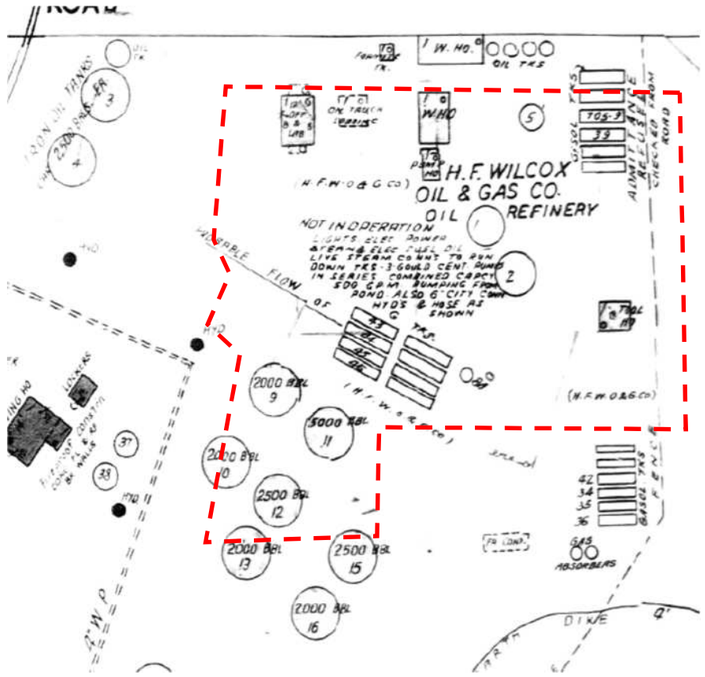
2-D Max Fluorescence
See Sheet 8A for larger size.

- Actual contaminant levels have not been adequately defined. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Groundwater from this area has not been evaluated.

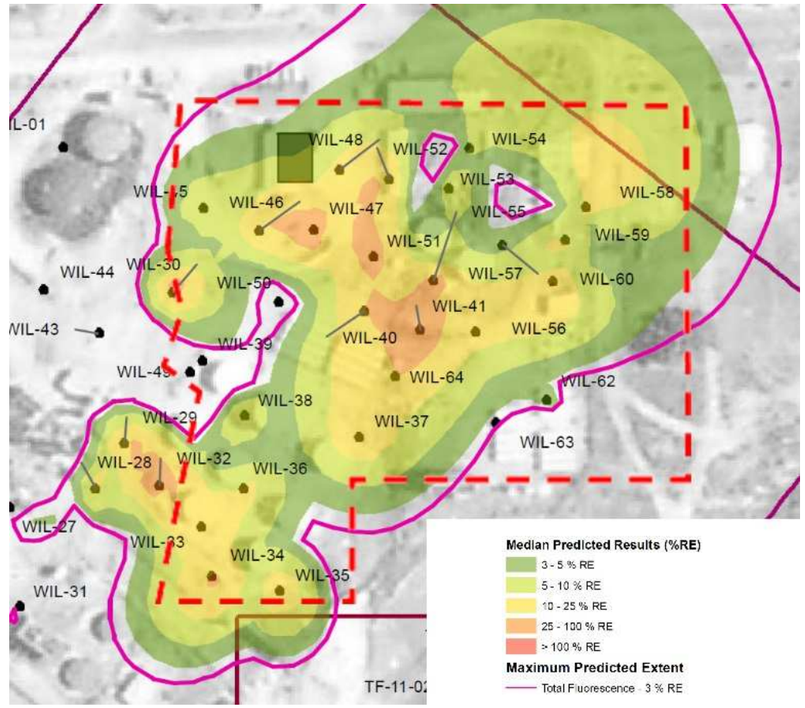
Recommendations

- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination.
- Given that the contamination appears to be a mixture of many hydrocarbon compounds, it may be more cost effective to delineate total petroleum hydrocarbons (TPH) rather than specific compounds. Remedial alternatives will likely need to address the full range of hydrocarbons.
- A vapor intrusion investigation should be performed to determine the residual contaminations impact on the rental property.

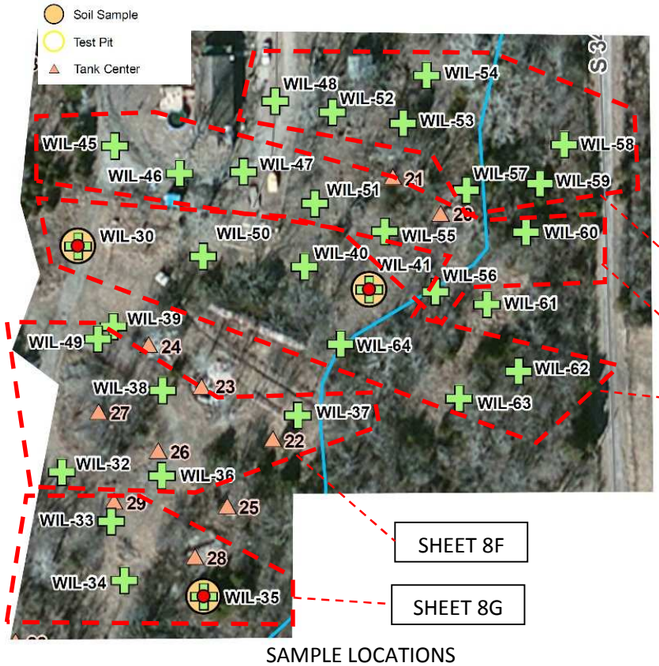
SHEET 8



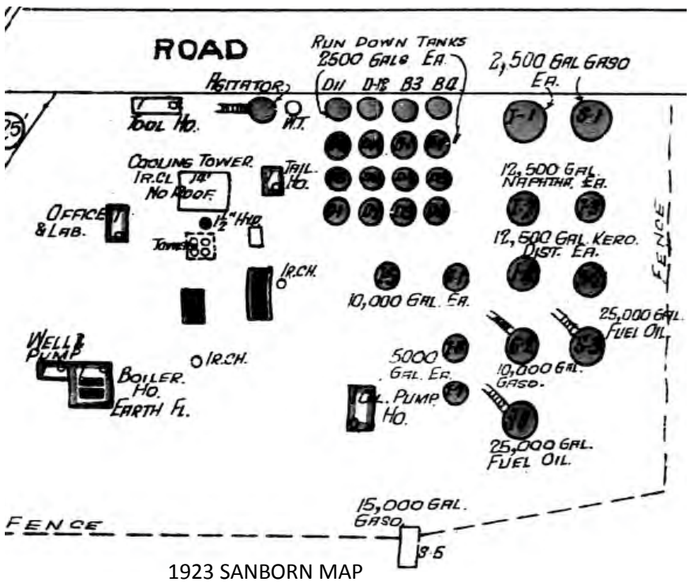
1961 SANBORN MAP



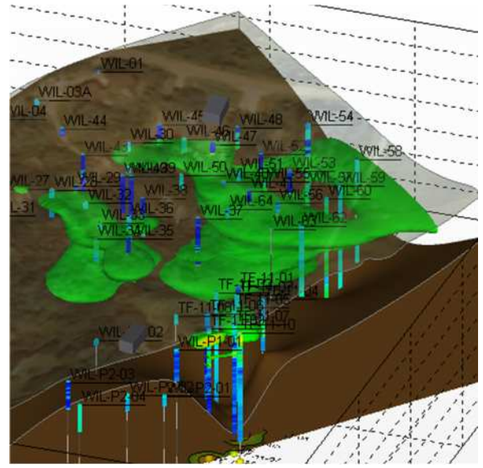
2D MAX



SAMPLE LOCATIONS



1923 SANBORN MAP



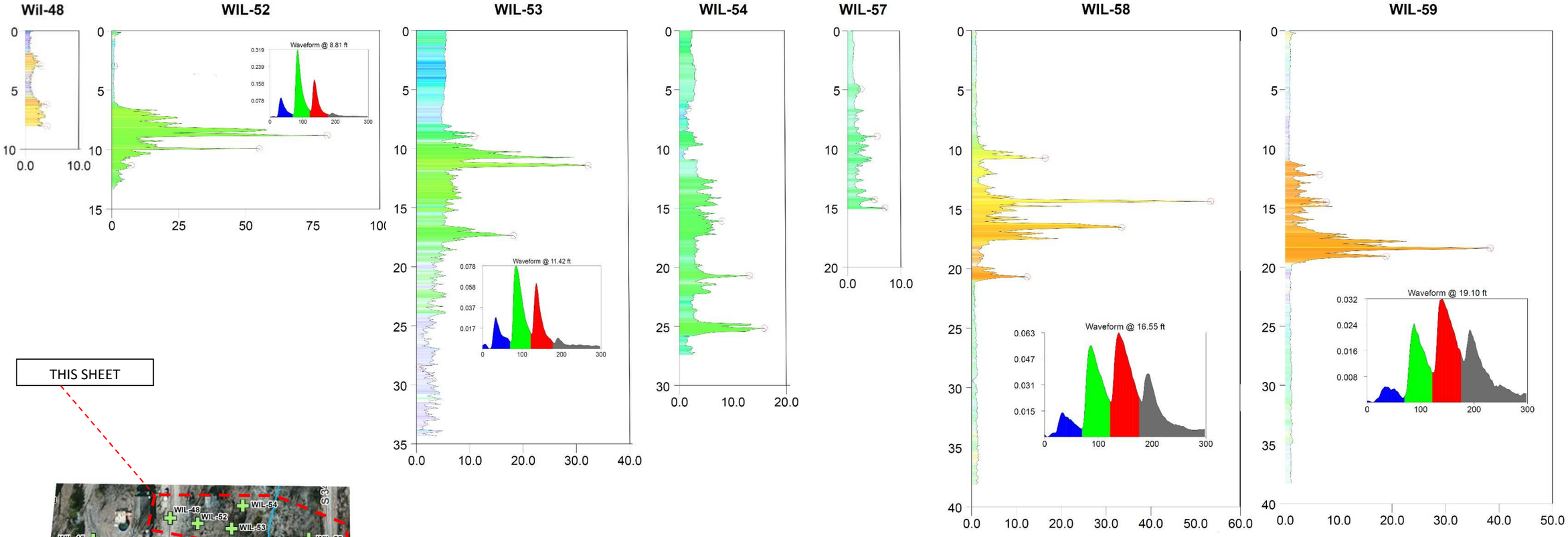
3D VISUALIZATION

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

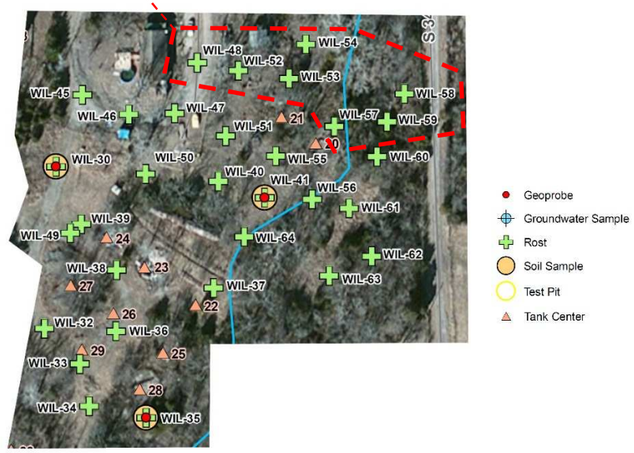
014774

WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8A

FLUORESCENCE RESPONSE DATA

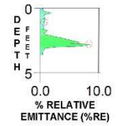


THIS SHEET



SAMPLE LOCATIONS

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

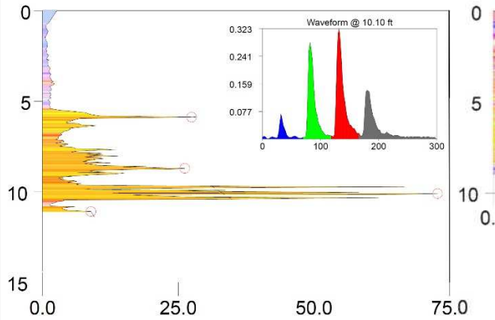
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014775

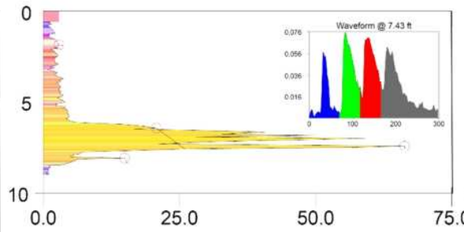
WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8B

FLUORESCENCE RESPONSE DATA

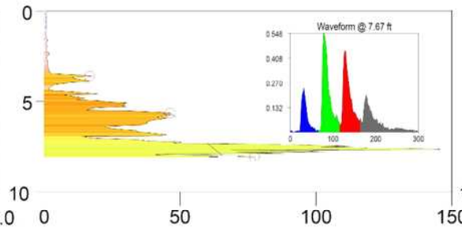
Wil-45



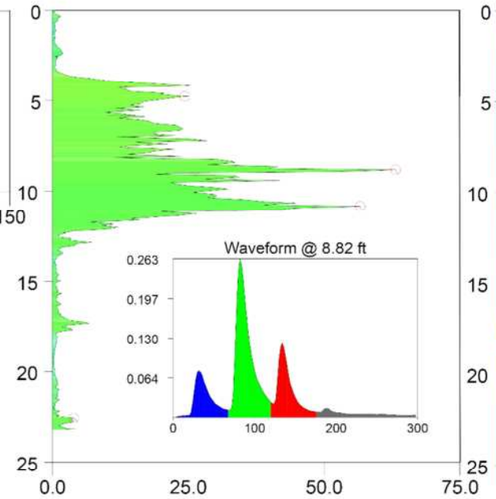
Wil-46



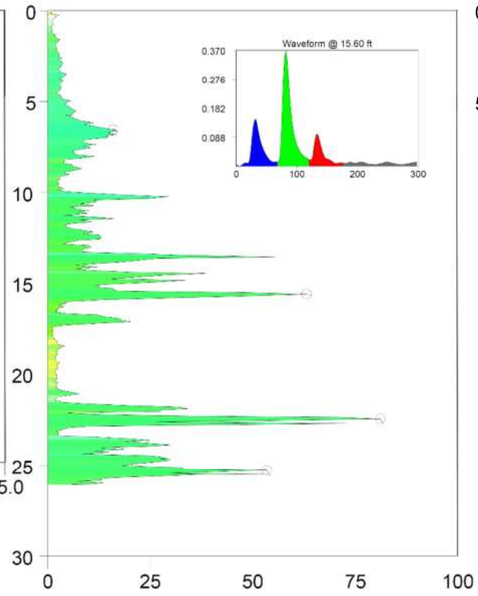
Wil-47



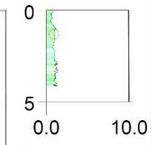
WIL-51



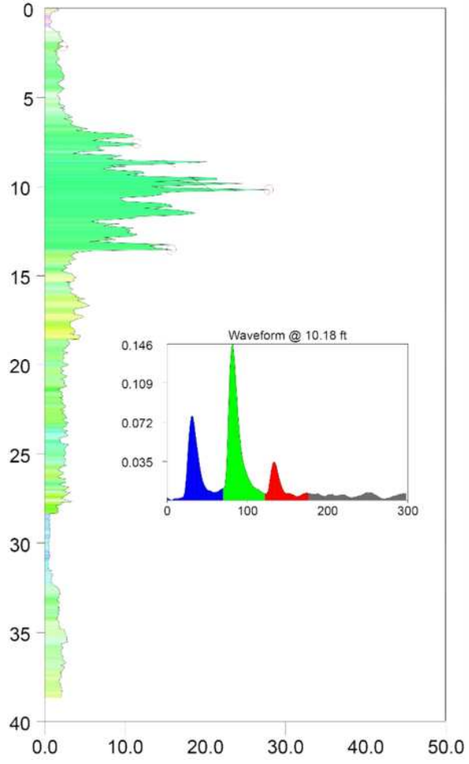
WIL-55



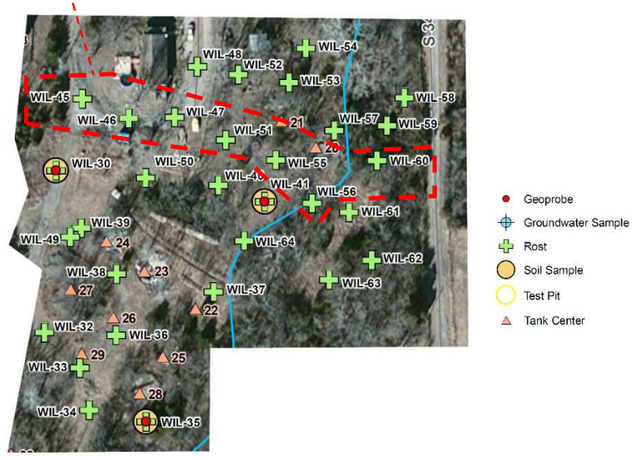
WIL-56



WIL-60

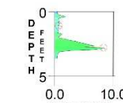


THIS SHEET



SAMPLE LOCATIONS

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

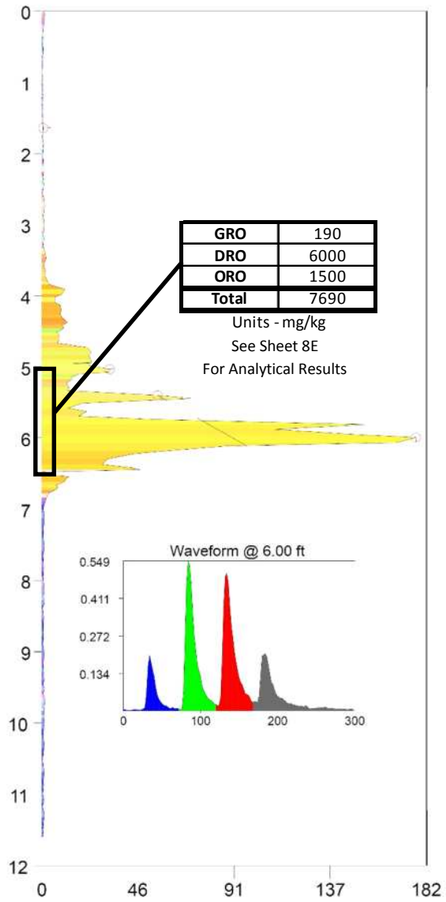
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014776

WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8C

FLUORESCENCE RESPONSE DATA

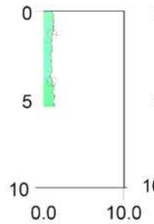
Wil-30



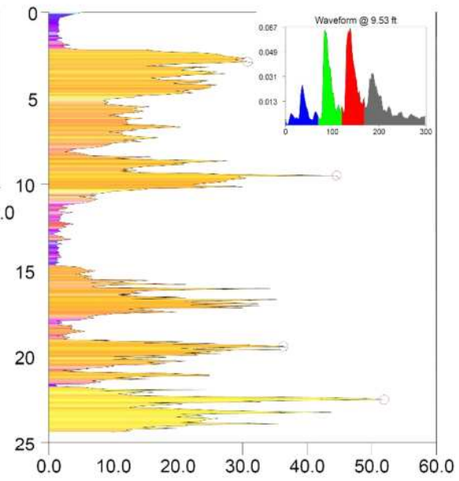
GRO	190
DRO	6000
ORO	1500
Total	7690

Units - mg/kg
See Sheet 8E
For Analytical Results

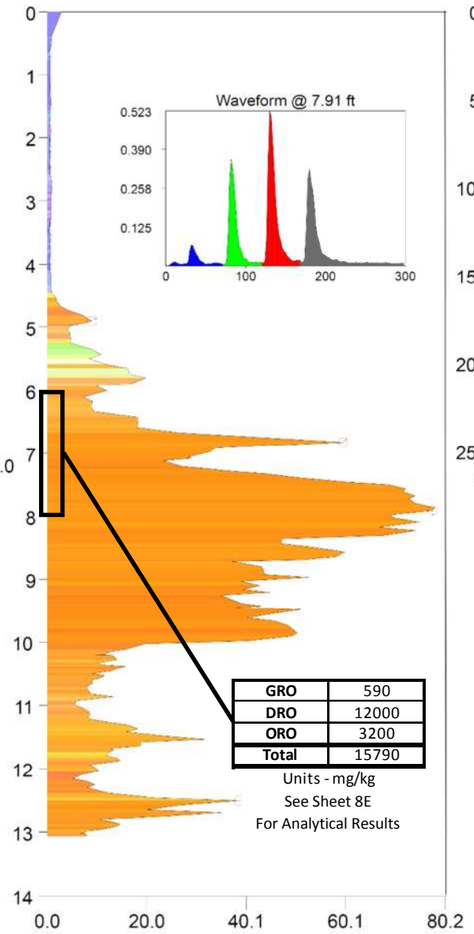
WIL-50



Wil-40



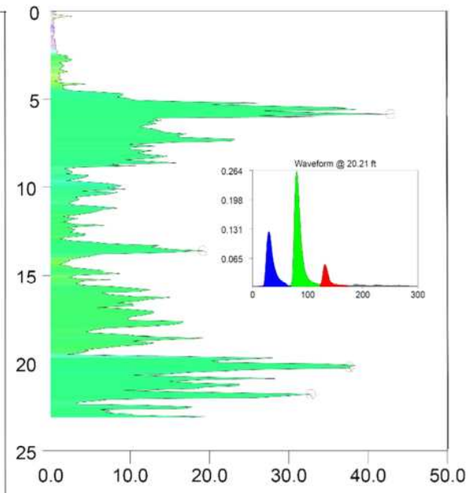
Wil-41



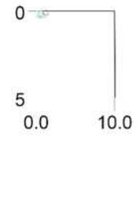
GRO	590
DRO	12000
ORO	3200
Total	15790

Units - mg/kg
See Sheet 8E
For Analytical Results

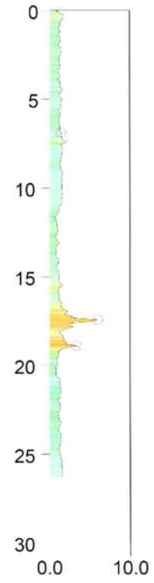
WIL-64



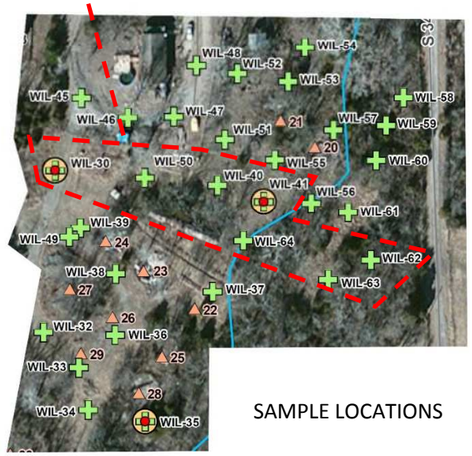
WIL-63



WIL-62

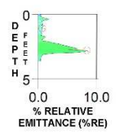


THIS SHEET



SAMPLE LOCATIONS

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8D

014777

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
WIL-30 5 to 6.5 Ft bgs	Methylene chloride	27	LJ	57000	1E6
	Cyclohexane	7000	J^	6500000	HI=1
	Methylcyclohexane	7900		NP	HI=1
	1,2-Dibromoethane	260	U	36	1E6
	Isopropylbenzene	580		1900000	HI=1
	1,2-Dibromo-3-chloropropane	260	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7300	U*	4900	1E6
	Hexachloroethane	3800	U*	1800	1E6
	Naphthalene	3800	*	130000	HI=1
	Naphthalene	1400	*	130000	HI=1
	4-Chloroaniline	7300	U*	2700	1E6
	Hexachlorobutadiene	3800	U*	1200	1E6
	2-Methylnaphthalene	8200	*	240000	HI=1
	2-Methylnaphthalene	5100	J	240000	HI=1
	Hexachlorocyclo-pentadiene	7300	U	1800	HI=1
	2,6-Dinitrotoluene	3800	U*	360	1E6
	2,4-Dinitrotoluene	3800	U*	1700	1E6
	Fluorene	130	J	2400000	HI=1
	4-Chlorophenyl-phenyl ether	3800	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7300	U*	5100	HI=1
	Hexachlorobenzene	3800	U*	210	1E6
	Atrazine	7300	U*	2400	1E6
	Phenanthrene	770	*	NP	HI=1
	Phenanthrene	1800	J	NP	HI=1
	Fluoranthene	160	J	2400000	HI=1
	Pyrene	380	*	1800000	HI=1
	Pyrene	950		1800000	HI=1
	3,3'-Dichlorobenzidine	7300	U*	1200	1E6
	Benzo(a)anthracene	3800	U*	160	1E6
	Benzo(a)anthracene	210		160	1E6
	Chrysene	400		15000	1E6
	Benzo(b)fluoranthene	3800	U*	160	1E6
	Benzo(b)fluoranthene	91		160	1E6
	Benzo(k)fluoranthene	19	LJ	1600	1E6
	Benzo(k)fluoranthene	3800	U*	1600	1E6
	Benzo(a)pyrene	3800	U*	16	1E6
	Benzo(a)pyrene	140		16	1E6
	Indeno(1,2,3-cd)pyrene	34	LJ	160	1E6
	Indeno(1,2,3-cd)pyrene	3800	U*	160	1E6
	Dibenzo(a,h)anthracene	26	LJ	16	1E6
	Dibenzo(a,h)anthracene	3800	U*	16	1E6
	Benzo(g,h,i)perylene	110		NP	HI=1

Units - µg/kg

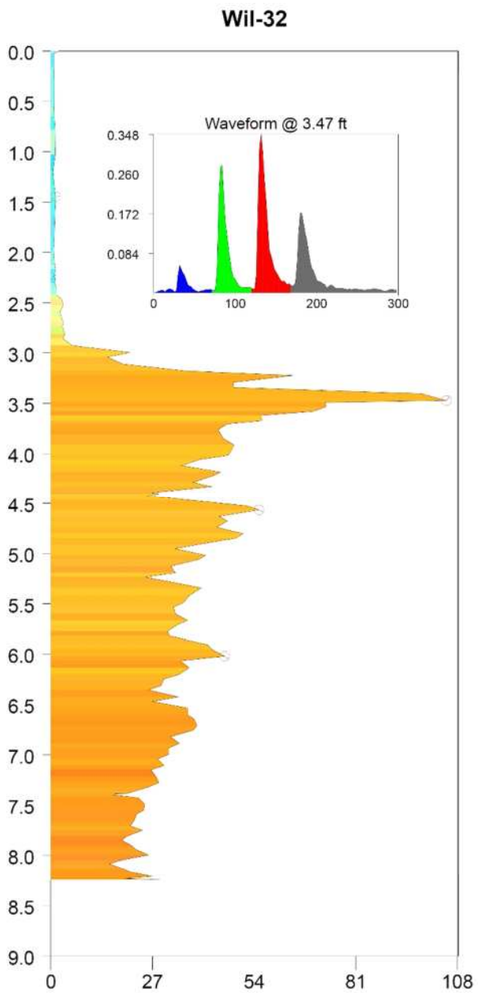
7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

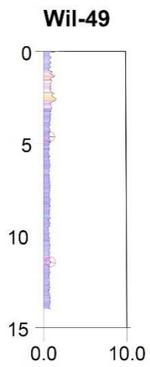
Loc	Analyte	Result	Q	Action Limit	AC
WIL-41 6 to 8 Ft bgs	Chloroform	350	U	320	1E6
	Cyclohexane	11000	J^	6500000	HI=1
	Methylcyclohexane	19000		NP	HI=1
	Bromodichloromethane	350	U	290	1E6
	1,2-Dibromoethane	350	UJv	36	1E6
	o-Xylene	210	LJ	650000	HI=1
	Isopropylbenzene	1300	J^	1900000	HI=1
	1,2-Dibromo-3-chloropropane	350	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	16000	U*	4900	1E6
	N-Nitroso-di-n propylamine	8100	U*	78	1E6
	Hexachloroethane	8100	U*	1800	1E6
	Nitrobenzene	8100	U*	5100	1E6
	Naphthalene	9900	*	130000	HI=1
	Naphthalene	5500	*	130000	HI=1
	4-Chloroaniline	16000	U*	2700	1E6
	Hexachlorobutadiene	8100	U*	1200	1E6
	2-Methylnaphthalene	22000	*	240000	HI=1
	2-Methylnaphthalene	37000		240000	HI=1
	Hexachlorocyclo-pentadiene	16000	U	1800	HI=1
	2,6-Dinitrotoluene	8100	U*	360	1E6
	Acenaphthene	1300	*	3600000	HI=1
	2,4-Dinitrotoluene	8100	U*	1700	1E6
	Fluorene	980	*	2400000	HI=1
	4-Chlorophenyl-phenyl ether	8100	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	16000	U*	5100	HI=1
	Hexachlorobenzene	8100	U*	210	1E6
	Atrazine	16000	U*	2400	1E6
	Phenanthrene	8300	*	NP	HI=1
	Phenanthrene	12000		NP	HI=1
	Anthracene	1500	*	18000000	HI=1
	Fluoranthene	150	*	2400000	HI=1
	Pyrene	5300	*	1800000	HI=1
	Pyrene	4500	*	1800000	HI=1
	3,3'-Dichlorobenzidine	16000	U*	1200	1E6
	Benzo(a)anthracene	1500	*	160	1E6
	Benzo(a)anthracene	1300	*	160	1E6
	Chrysene	4100	*	15000	1E6
	Chrysene	2900	*	15000	1E6
	Benzo(b)fluoranthene	8100	U*	160	1E6
	Benzo(b)fluoranthene	1000		160	1E6
	Benzo(k)fluoranthene	8100	U*	1600	1E6
	Benzo(k)fluoranthene	120		1600	1E6
	Benzo(a)pyrene	8100	U*	16	1E6
	Benzo(a)pyrene	950		16	1E6
	Indeno(1,2,3-cd)pyrene	8100	U*	160	1E6
	Indeno(1,2,3-cd)pyrene	94		160	1E6
	Dibenzo(a,h)anthracene	8100	U*	16	1E6
	Dibenzo(a,h)anthracene	100		16	1E6
	Benzo(g,h,i)perylene	180		NP	HI=1

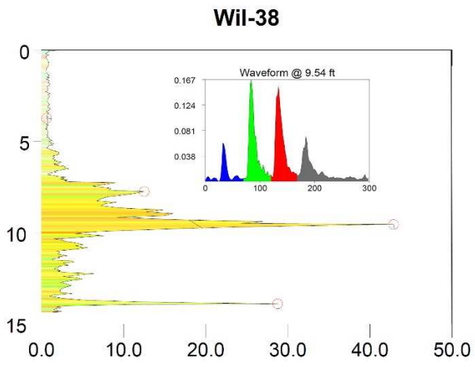
Units - µg/kg

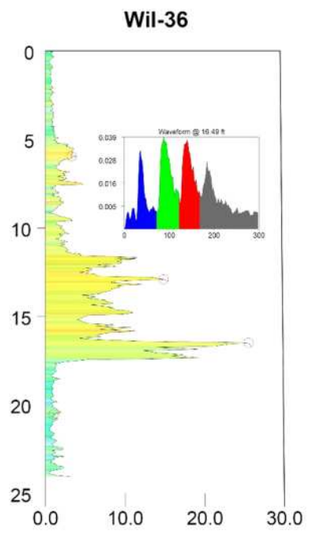
WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8E

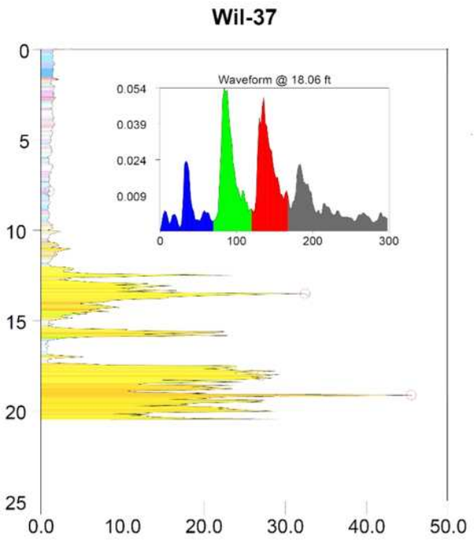
FLUORESCENCE RESPONSE DATA



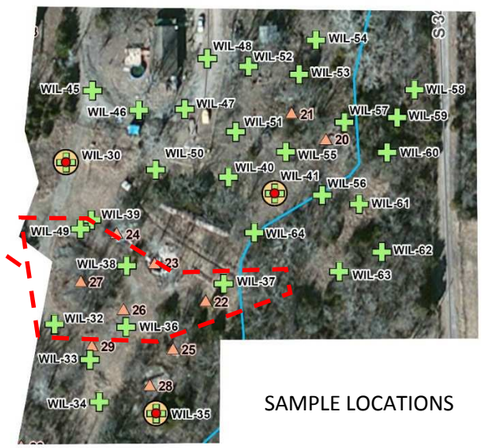






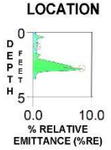


THIS SHEET



SAMPLE LOCATIONS

LOCATION



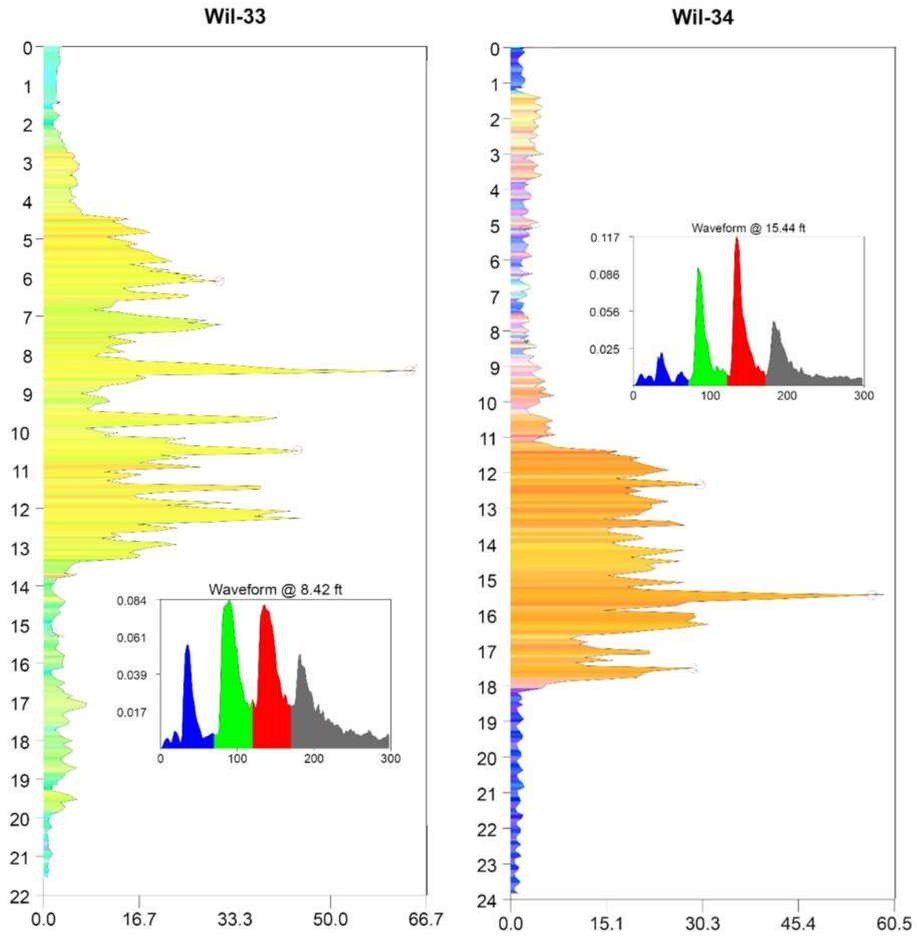
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

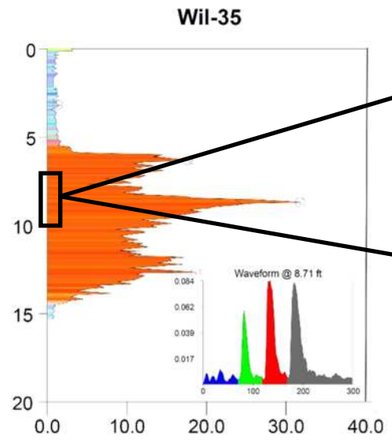
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8F

014779

FLUORESCENCE RESPONSE DATA



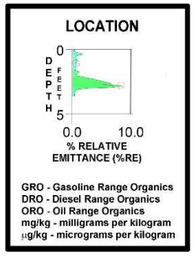


GRO	3000
DRO	1000
ORO	60
Total	4060

Units - mg/kg

THIS SHEET

SAMPLE LOCATIONS



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

Loc	Analyte	Result	Q	Action Limit	AC
	Vinyl chloride	2800	UJ	590	1E6
	Chloroform	4100		320	1E6
	Cyclohexane	33000		6500000	HI=1
	Carbon tetrachloride	2800	U	650	1E6
	Benzene	1700	LJ	1200	1E6
	1,2-Dichloroethane	2800	U	460	1E6
	Trichloroethene	2800	U	940	1E6
	Methylcyclohexane	110000		NP	HI=1
	1,2-Dichloropropane	2200	LJ	1000	1E6
	Bromodichloromethane	2800	U	290	1E6
	Toluene	1900	LJ	4900000	HI=1
	1,1,2-Trichloroethane	2800	U	1100	1E6
	Dibromochloromethane	2800	U	750	1E6
	1,2-Dibromoethane	2800	U	36	1E6
	Ethylbenzene	47000		5800	1E6
	o-Xylene	2800	LJ	650000	HI=1
	m, p-Xylene	60000		NP	HI=1
	Isopropylbenzene	8800		1900000	HI=1
	1,1,2,2-Tetrachloroethane	2800	U	600	1E6
	1,4-Dichlorobenzene	2800	U	2600	1E6
	1,2-Dibromo-3-chloropropane	2800	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7800	U*	4900	1E6
	Hexachloroethane	4000	U*	1800	1E6
	Naphthalene	5300	*	130000	HI=1
	Naphthalene	2000	*	130000	HI=1
	4-Chloroaniline	7800	U*	2700	1E6
	Hexachlorobutadiene	4000	U*	1200	1E6
	2-Methylnaphthalene	6000	*	240000	HI=1
	2-Methylnaphthalene	3100	*	240000	HI=1
	Hexachlorocyclo-pentadiene	7800	U	1800	HI=1
	1,1'-Biphenyl	150		47000	HI=1
WIL-35	2,6-Dinitrotoluene	4000	U*	360	1E6
7 to 10	Acenaphthene	550		3600000	HI=1
Ft bgs	Dibenzofuran	400	J	73000	HI=1
	2,4-Dinitrotoluene	4000	U*	1700	1E6
	Fluorene	2600	*	2400000	HI=1
	4-Chlorophenyl-phenyl ether	4000	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7800	U*	5100	HI=1
	Hexachlorobenzene	4000	U*	210	1E6
	Atrazine	7800	U*	2400	1E6
	Phenanthrene	8500	*	NP	HI=1
	Phenanthrene	21000		NP	HI=1
	Anthracene	3700	*	18000000	HI=1
	Anthracene	1500	*	18000000	HI=1
	Carbazole	1400	LJ	NP	HI=1
	Fluoranthene	3300	*	2400000	HI=1
	Fluoranthene	1500	*	2400000	HI=1
	Pyrene	7200	*	1800000	HI=1
	Pyrene	5800	J	1800000	HI=1
	3,3'-Dichlorobenzidine	7800	U*	1200	1E6
	Benzo(a)anthracene	4900	*	160	1E6
	Benzo(a)anthracene	2000	*	160	1E6
	Chrysene	7600	*	15000	1E6
	Chrysene	4000	J	15000	1E6
	Benzo(b)fluoranthene	680	*	160	1E6
	Benzo(b)fluoranthene	1300	J	160	1E6
	Benzo(k)fluoranthene	4000	U*	1600	1E6
	Benzo(k)fluoranthene	220		1600	1E6
	Benzo(a)pyrene	630	*	16	1E6
	Benzo(a)pyrene	1400	J	16	1E6
	Indeno(1,2,3-cd)pyrene	290	J	160	1E6
	Indeno(1,2,3-cd)pyrene	4000	U*	160	1E6
	Dibenzo(a,h)anthracene	330	J	16	1E6
	Dibenzo(a,h)anthracene	4000	U*	16	1E6
	Benzo(g,h,i)perylene	400	J	NP	HI=1

Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
PRODUCT STORAGE AREA
Sheet 8G

014780

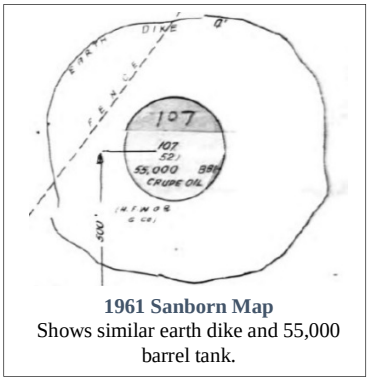
Tank Farm Tank 3

Sheet 9

Location

Location Description

- Located in the southeastern area of the Tank Farm.
- Sanborn Maps
  - Storage Tank not shown in 1915, 1920, 1923, or 1961 Sanborn Maps. No storage tank can be seen in 1941 or 1956 aerial photographs.
  - No evidence that the tank was ever constructed, although earthen berm and grading for tank pad are clearly visible in aerial photographs.
  - Earthen dike around tank pad (4 feet tall).
  - Estimated Tank Size (if constructed):
    - 55,000 barrels.
- Weathered asphalt material was observed on the tank berm remains.



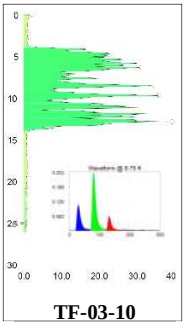
1961 Sanborn Map
Shows similar earth dike and 55,000 barrel tank.

Topography (Sheet 9)

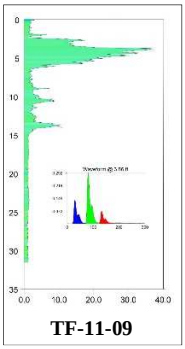
- Surface drainage is toward the south/southeast per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow to the northwest, approximately 3 feet, sloping down to the southeast to approximately 27 ft bgs.
- The tank is located directly northwest of a tributary to Sand Creek. The tank berm to the southeast of the original tank location is part of a steep stream bank that slopes downward 15 to 20 feet to the creek.

ROST Results

- TF-03-10 was the only ROST location that indicated significant contamination, beginning at approximately 4 feet and continuing to approximately 14 feet bgs. Minimal contamination was indicated in TF-03-05 and TF-03-06, both between 6 and 8 feet bgs.
- No analytical samples were collected from Tank 3. However, based on the ROST waveform for TF-03-11 as compared to the waveform from Wilcox Tank 11 (TF-11-09), the material at Tank 3 is very similar to the material at Tank 11. The samples from Tank 11 indicate constituents consistent with a low concentration crude oil type hydrocarbon mixture.

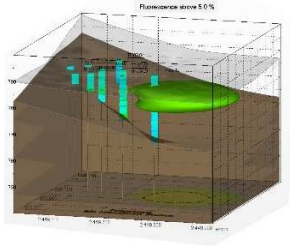


TF-03-10



TF-11-09

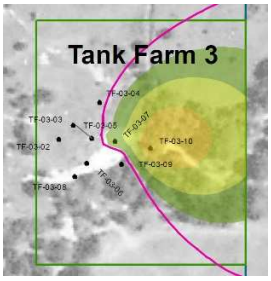
Environmental Impacts/Conclusions



ROST 3D Visualization

- The 3-D interpretation of the ROST data indicates a compact lens of contamination, but the extent is not fully delineated to the east or toward the creek. The waveform is consistent with waveforms for a weathered crude.
- This compact lens of contamination is seen consistently in other tank areas throughout the Tank Farm. It is possible this contamination comes from refinery materials used to construct the tank pads and berms, either the slag like structural fill or asphalt-like material used to armor the berms.
- The contamination seems to begin at the center of the historic tank and continue downgradient to the east. The construction of this pad would have required significant fill material to level the site, particularly toward the east. It is possible that the contamination being seen is the waste material fill.
- <u>There is no evidence of a tank having been constructed within this berm. If so, the contamination seen is a result of the construction of the tank impoundment area.</u>
- Impact to the tributary of Sand Creek is unknown at this time, but it is possible that the contamination could impact the tributary.

Data Gaps

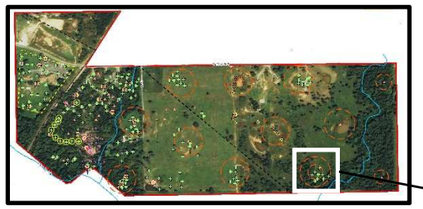


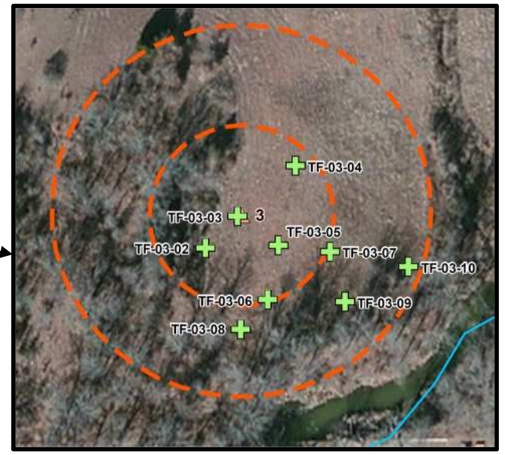
2D Max Contamination
Shown on 1956 aerial photograph.

- Actual contaminant levels have not been quantified, but are likely low concentrations based on analytical results from other tanks, with similar lenses of contamination (Tanks 11 and 12), ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.

Recommendations

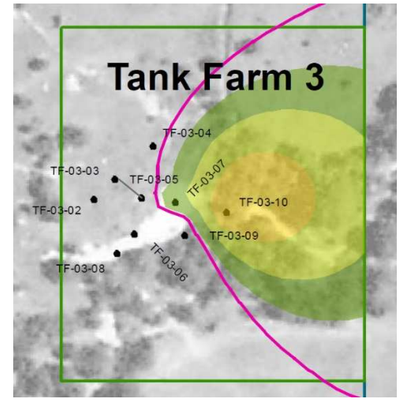
- Limited sampling should be performed in known contaminated areas to identify compounds, concentrations, leachability, and/or bioavailability.
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination, if warranted.





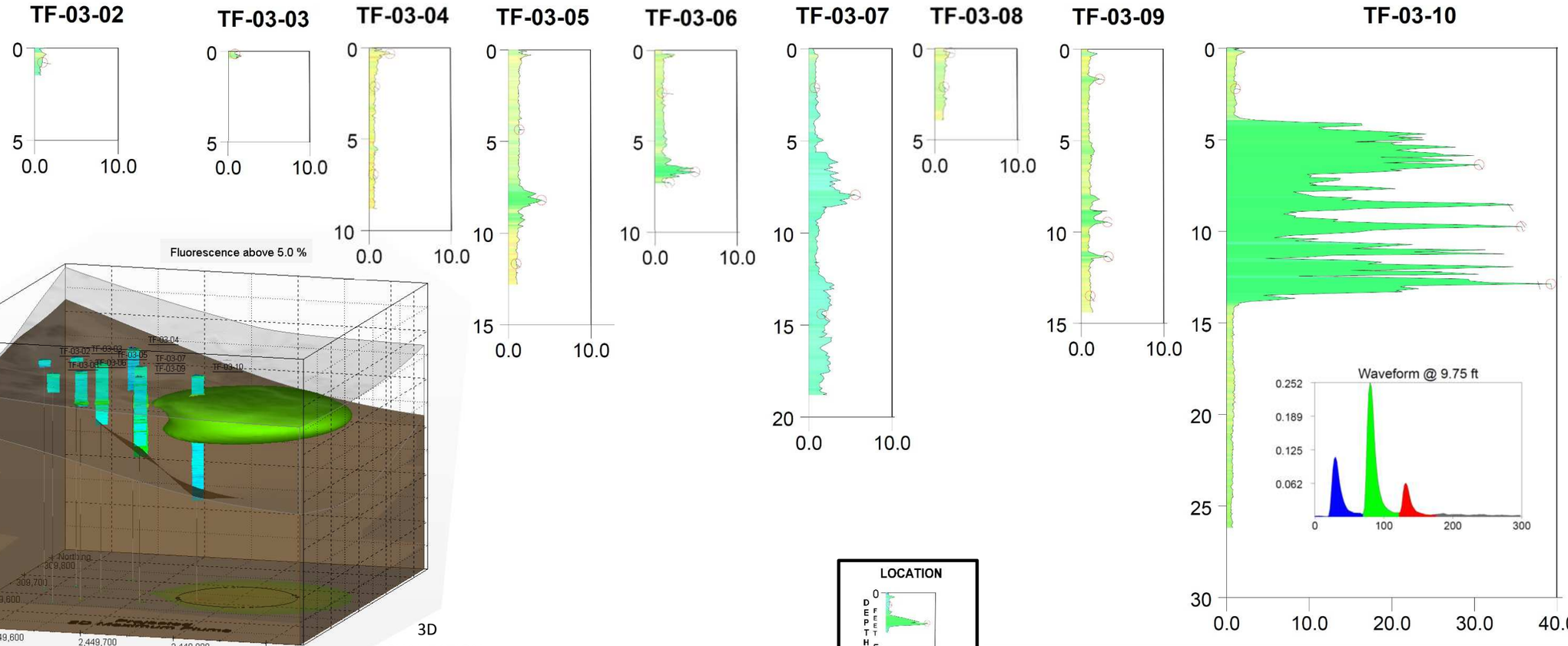
SAMPLE LOCATIONS

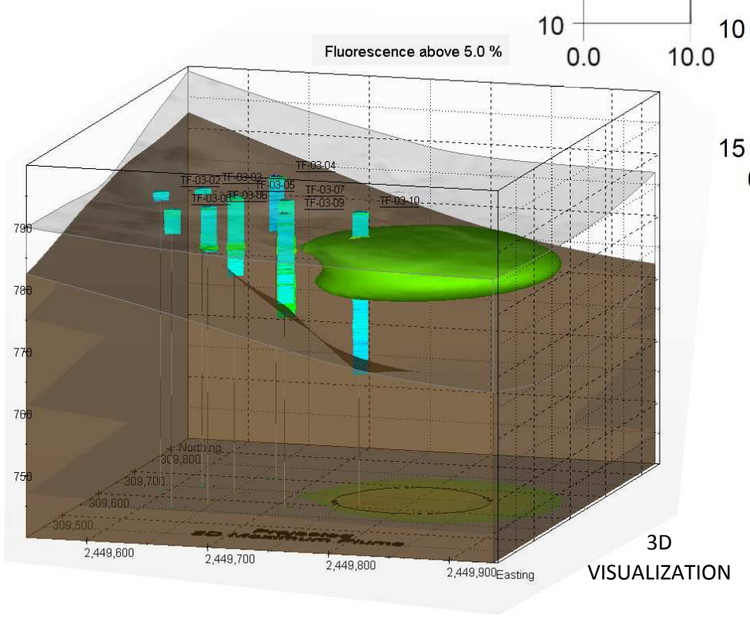
- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center



2D MAX
FLUORESCENCE

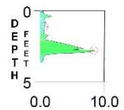
FLUORESCENCE RESPONSE DATA





3D
VISUALIZATION

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 3
Sheet 9

014783

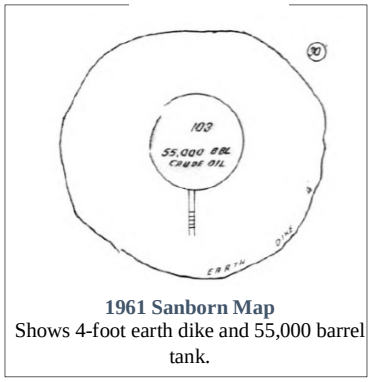
Tank Farm Tank 5

Sheet 10

Location Description

Location

- Located in the north-eastern area of the Tank Farm.
- 1961 Sanborn Map
  - Tank shown on 1961 Sanborn Map.
  - Earthen dike around tank (4-ft tall).
  - Tank Size:
    - 55,000 barrels.



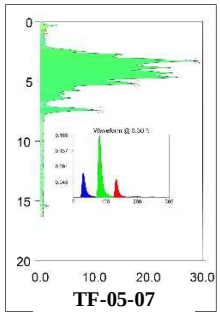
1961 Sanborn Map
Shows 4-foot earth dike and 55,000 barrel tank.

Topography (Sheet 10)

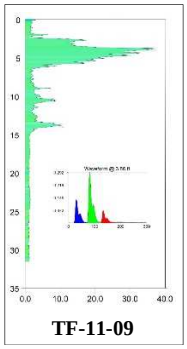
- Surface drainage is toward a tributary to Sand Creek to the east per ponding within the berm as seen in the 1956 aerial photograph.
- A pond, not visible in the 1941 or 1956 aerial photographs, now lies between the impoundment area and the tributary to Sand Creek. The property owner confirmed that the pond was installed in the early 2000's.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow to the west, with outcroppings visible, sloping down to the east to approximately 16 ft bgs.
- There are faint remains of the original earth dike.

ROST Results

- TF-05-07, TF-05-08, and TF-05-09 indicate contamination beginning approximately 2 feet bgs, ending approximately 7 to 8 feet bgs.
- No analytical samples were collected from Tank 5. However, based on the ROST waveform for TF-05-07 as compared to the waveform from Wilcox Tank 11 (TF-11-09), the material at Tank 5 is very similar to the material at Tanks 11, 12 and 3. The samples from Tank 11 indicate constituents consistent with a low concentration crude oil type hydrocarbon mixture.
- The 3-D interpretation of the ROST data indicates a compact lens of contamination, which is not fully delineated to the east toward the pond.



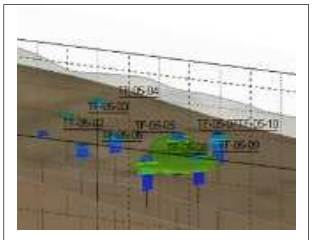
TF-05-07



TF-11-09

Environmental Impacts/Conclusions

- The 3-D interpretation of the ROST data indicates a compact lens of contamination, but the extent is not fully delineated to the east. The waveform is consistent with waveforms for a weathered crude.
- This compact lens of contamination is seen consistently in other tank areas throughout the Tank Farm. It is possible this contamination comes from refinery materials used to construct the tank pads and berms, either the slag like structural fill or asphalt-like material used to armor the berms.

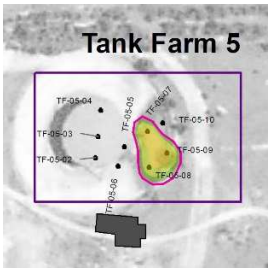


ROST 3D Visualization

- The contamination appears limited to the eastern edge of the impoundment area where ponding is visible on the 1956 aerial photograph. The construction of this pad would have required significant fill material to level the site, particularly toward the east. It is possible that the contamination being seen is the waste material fill.

Data Gaps

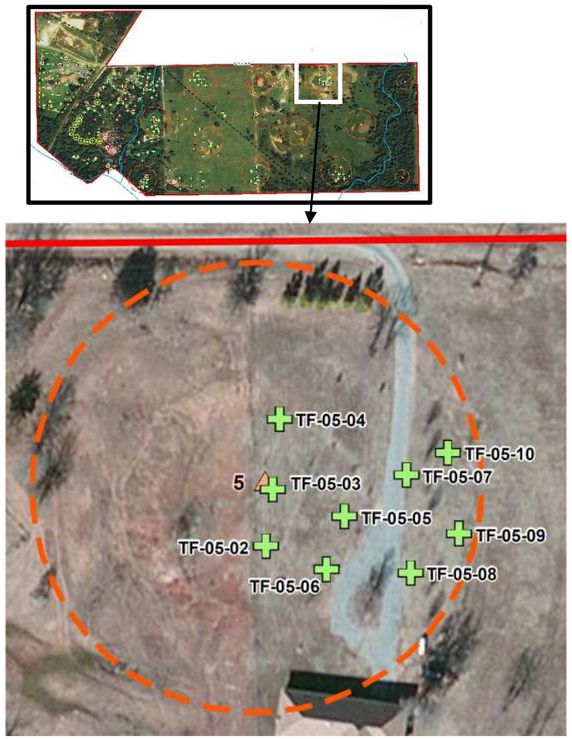
- ROST cannot locate single ring hydrocarbon compounds; however, all records indicate all tanks in this area were used for crude oil storage.
- Actual contaminant levels have not been quantified. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Groundwater from this area has not been evaluated.
- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.



2D Max Contamination
Shown on 1956 aerial photograph.

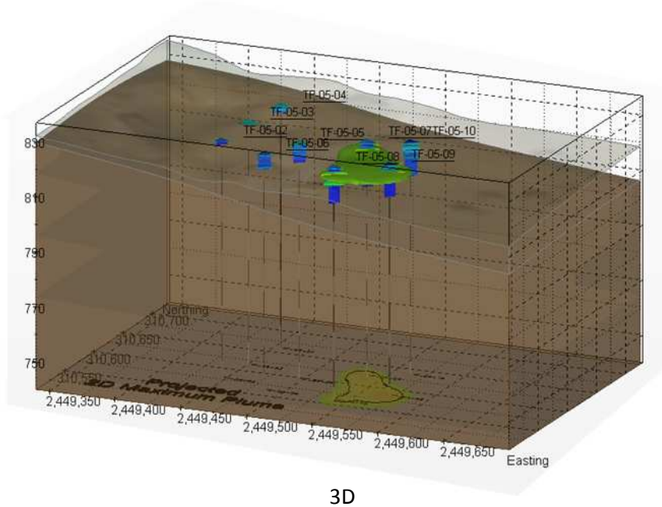
Recommendations

- Limited sampling should be performed in known contaminated areas to identify compounds, concentrations, leachability, and/or bioavailability.
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination if warranted.

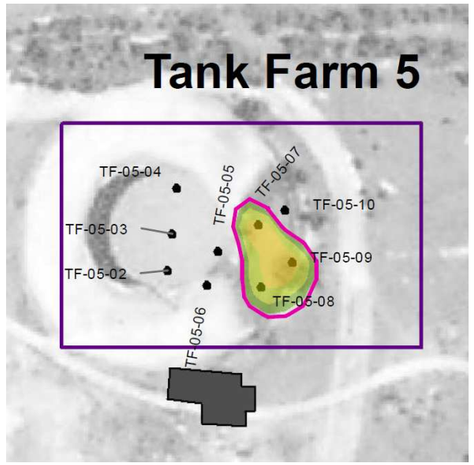


SAMPLE LOCATIONS

- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center

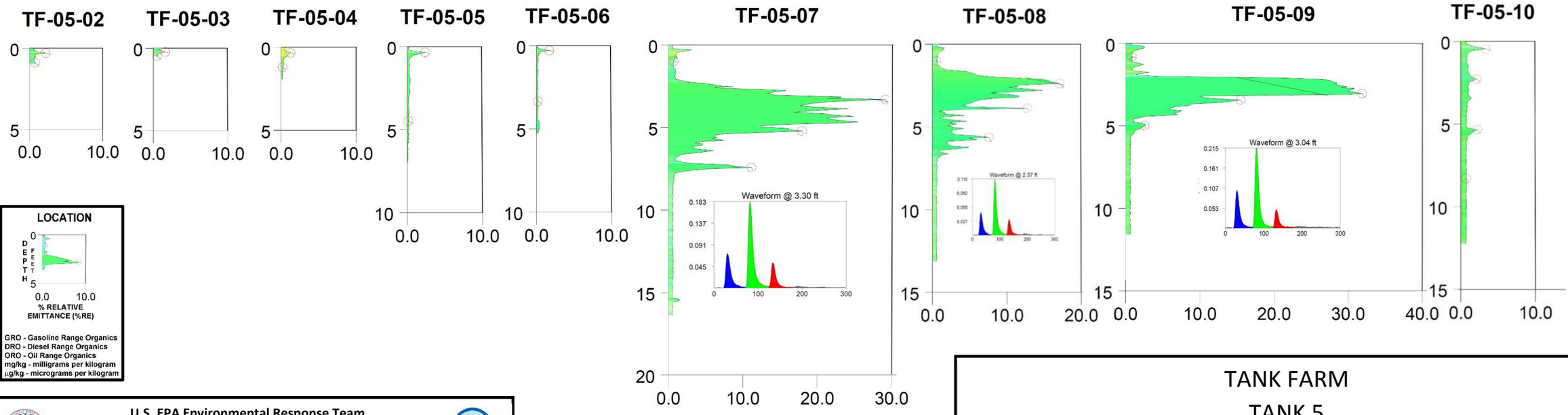


3D
VISUALIZATION



2D MAX
FLUORESCENCE

FLUORESCENCE RESPONSE DATA



LOCATION

DEPTH FEET

% RELATIVE EMITTANCE (%RE)

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 5
Sheet 10

014786

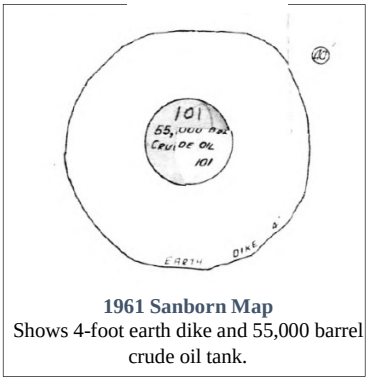
Tank Farm Tank 6

Sheet 11

Location Description

Location

- Located on the northern edge of the Tank Farm.
- 1961 Sanborn Map
  - Tank shown on 1961 Sanborn Map.
  - Earthen dike around tank (4-ft tall).
  - Tank Size:
    - 55,000 barrels.
  - Labeled a crude oil tank.



1961 Sanborn Map
Shows 4-foot earth dike and 55,000 barrel crude oil tank.

Topography (Sheet 10)

- Surface drainage is toward the southwest, per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow throughout, with an overburden layer approximately 4 to 5-ft deep.
- There are faint remains of the original earth dike.

Boring Logs and Samples

- This location was investigated early in the investigation primarily by Geoprobe™. No samples were collected due to no PID response and no visual indication of contamination.
- Borings were collected from the following locations. Depth of refusal is noted for each:
  - TF-06-02 (4 ft bgs)
  - TF-06-03 (3.5 ft bgs)
  - TF-06-04 (4 ft bgs)
  - TF-06-05 (6 ft bgs)
  - TF-06-06 (3 ft bgs)
  - TF-06-07 (1.5 ft bgs)
  - TF-06-08 (5.5 ft bgs)
  - TF-06-09 (8.5 ft bgs)
  - TF-06-10 (4 ft bgs)

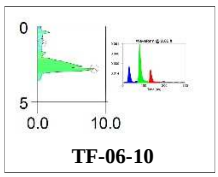
TF-06-08 5-5.5 ft bgs

TF-06-09 6-7 ft bgs

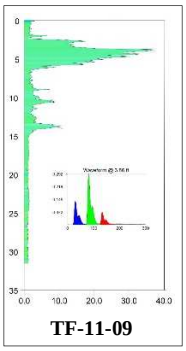
TF-06-05 4-5 ft bgs

- All logs record a thin layer of topsoil over varied layers of medium stiff to stiff dry red and gray clays with some very fine sands and silts
- PID Readings were non-detect for all borings. A slight petroleum odor was noted in TF-06-10.

ROST Results



TF-06-10



TF-11-09

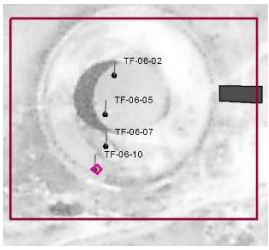
- ROST was used to verify Geoprobe™ results. Only four of the Geoprobe™ locations were investigated.
- TF-06-10, whose core exhibited a slight hydrocarbon odor, was the only location that indicated the presence of hydrocarbon material.
- No analytical samples were collected from Tank 6. However, based on the ROST waveform for TF-06-10 as compared to the waveform from Wilcox Tank 11 (TF-11-09), the material at Tank 6 is very similar to the material at Tanks 11, 12, 3 and 5. The samples from Tank 11 indicated constituents consistent with a low concentration crude oil type hydrocarbon mixture.

Environmental Impacts/Conclusions

- The extent of contamination in this impoundment area is limited. This pattern of contamination is seen consistently in other tank areas throughout the Tank Farm. It is possible this contamination comes from refinery materials used to construct the tank pads and berms, either the slag like structural fill or asphalt-like material used to armor the berms.

Data Gaps

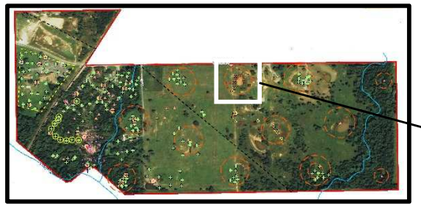
- Actual contaminant levels have not been quantified, but are likely low concentrations based on analytical results from other tanks, with similar patterns of contamination (Tanks 11 and 12), ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Analytical data are needed to confirm the type and quantity of the contamination noted by the ROST.
- Groundwater from this area has not been evaluated.

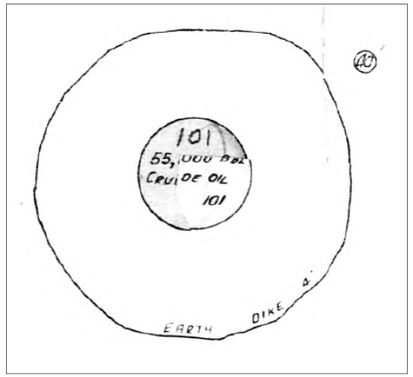


2D Max Contamination
Shown on 1956 aerial photograph.

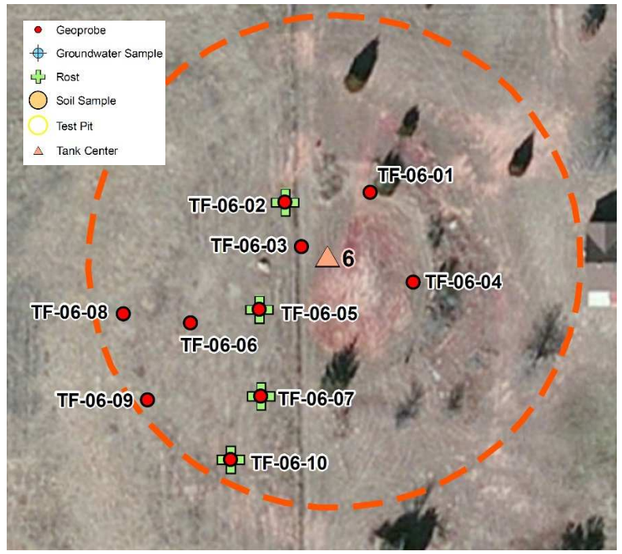
Recommendations

- Analytical data are needed to confirm the type and quantity of the contamination noted by the ROST.

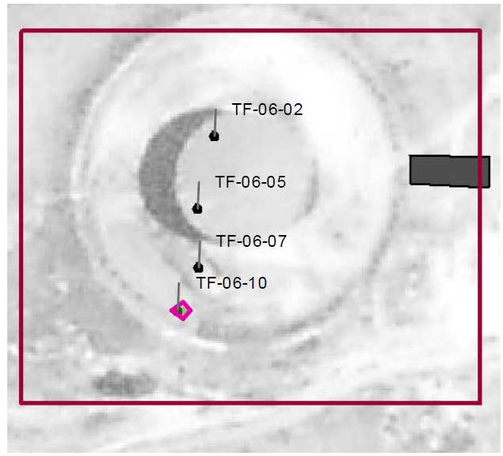




1961 SANBORN MAP

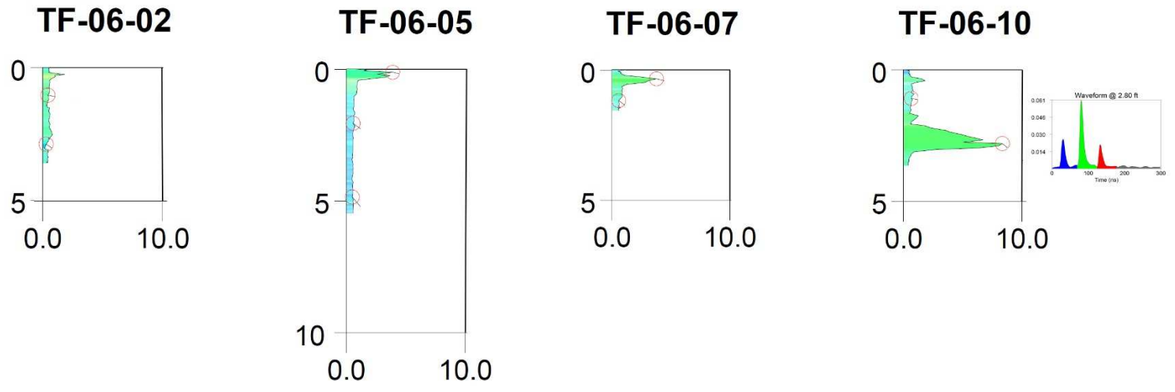


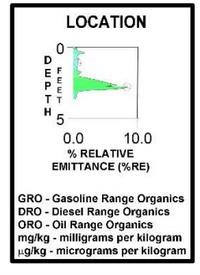
SAMPLE LOCATIONS



2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH

FLUORESCENCE RESPONSE DATA





U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 6
Sheet 11

014789

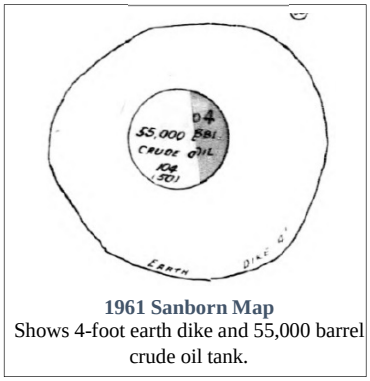
Tank Farm Tank 7

Sheet 12

Location Description

Location

- Located in the northwestern corner of the Tank Farm.
- 1961 Sanborn Map
  - Tank shown on 1961 Sanborn Map.
  - Earthen dike around tank (4-ft tall).
  - Tank Size:
    - 55,000 barrels.
  - Labeled a crude oil tank.



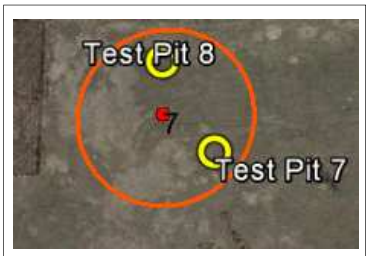
1961 Sanborn Map
Shows 4-foot earth dike and 55,000 barrel crude oil tank.

Topography (Sheet 10)

- Surface drainage is toward the northwest, per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow to the southeast, with some bedrock outcrops. The bedrock sloped steeply to the northwest, reaching a depth of approximately 17 feet at TF-07-09 and TF-07-10.
- There are faint remains of the original earth dike.

Test Pits, Boring Logs, and Samples

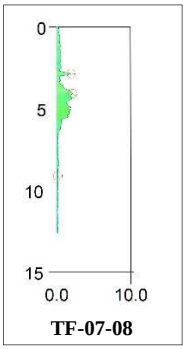
- Test Pits – Two test pits were completed in this area during the September Geophysical survey event.
  - Test Pit 7
    - 0-1 ft bgs brown sand
    - 1-2 ft bgs orange brown mottled sandy clay
    - 2-5.5 ft bgs layered mottled grey sandy clay
    - >5.5 ft bgs hard grey clay
  - Test Pit 8
    - 0-2 ft bgs brown medium sand
    - 2-3.5 ft bgs mottled orange brown clay
    - 3-7 ft bgs light grey orange brown mottled clay
    - 7-7.4 ft bgs light grey hard sandy clay



Test Pits

ROST Results

- Little to no hydrocarbon contamination was noted in this area. Possible trace amounts may have been detected in TF-07-08 at approximately 5 ft bgs.



TF-07-08

Environmental Impacts/Conclusions

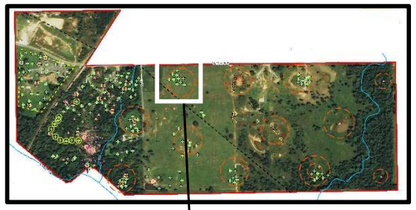
- Little to no contamination was found in this area.

Data Gaps

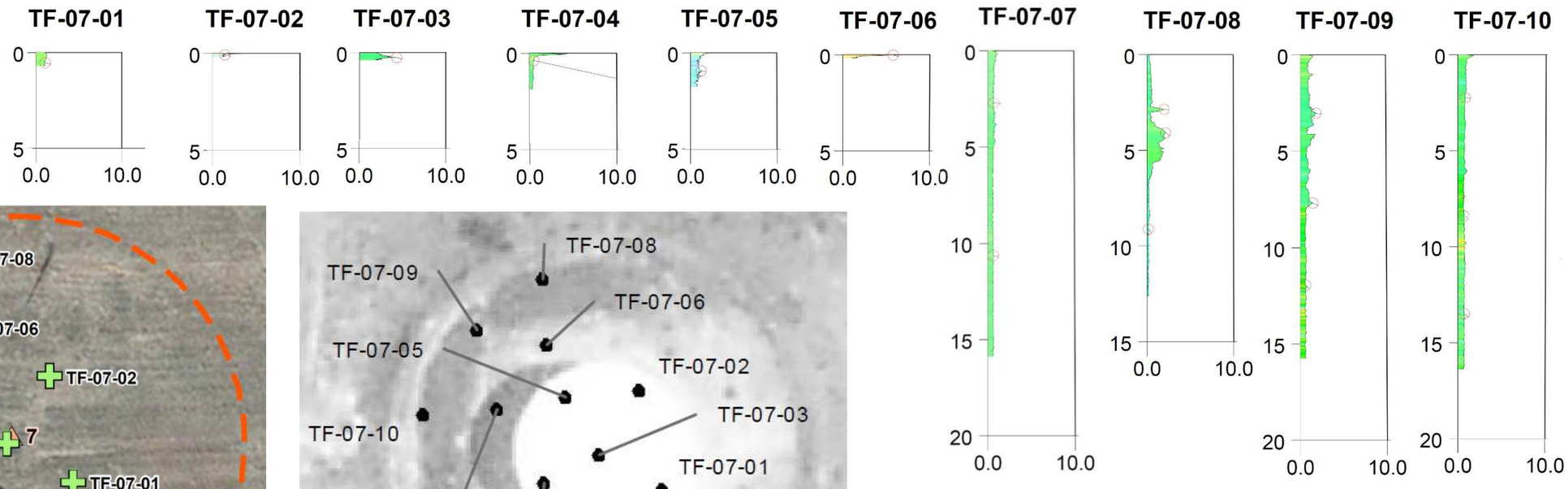
- ROST cannot locate single ring hydrocarbon compounds.
- Actual contaminant levels have not been quantified. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Groundwater from this area has not been evaluated.

Recommendations

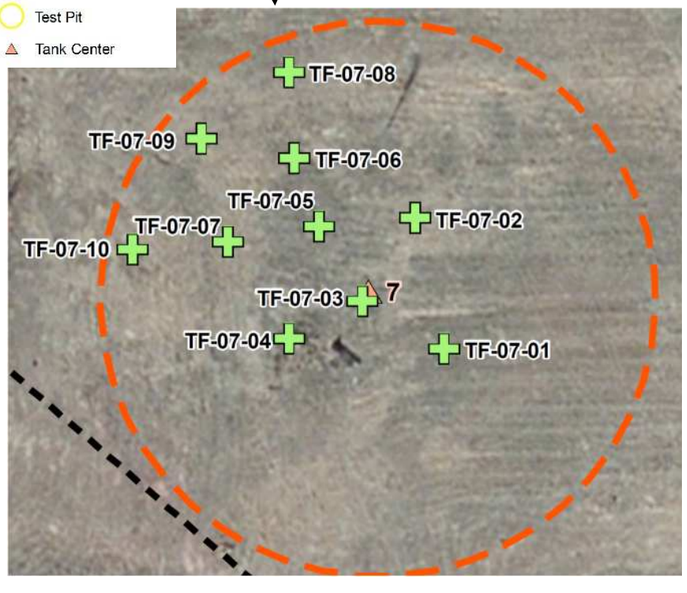
- No further action is recommended in this area.



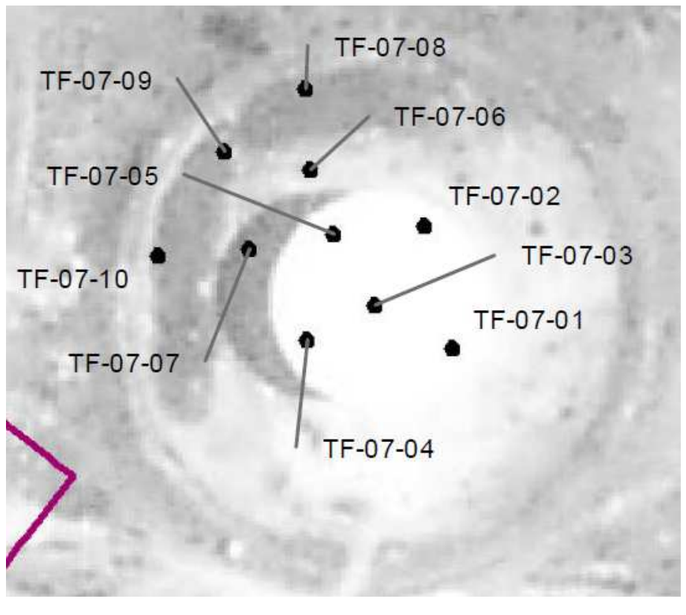
FLUORESCENCE RESPONSE DATA



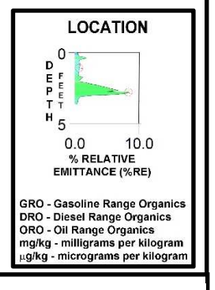
- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center



SAMPLE LOCATIONS



1956 AERIAL PHOTOGRAPH



U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 7
Sheet 12

014792

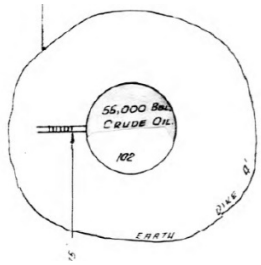
Tank Farm Tank 8

Sheet 13

Location Description

Location

- Located in the center of the Tank Farm.
- 1961 Sanborn Map
  - Tank shown on 1961 Sanborn Map.
  - Earthen dike around tank (4-ft tall).
  - Tank Size:
    - 55,000 barrels.
  - Labeled a crude oil tank.



1961 Sanborn Map
Shows 4-foot earth dike and 55,000 barrel crude oil tank.

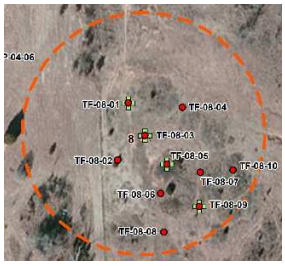
Topography (Sheet 10)

- Surface drainage is toward the southeast per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow at the center of where the tank was placed, between 1 to 7.5 ft bgs. The bedrock slopes to the southeast to a depth of approximately 13 ft bgs.
- There are faint remains of the original earth dike.

Test Pit Locations

Test Pits, Boring Logs, and Samples

- Test Pits – Two test pits were completed in this area during the September Geophysical survey event.
  - Test Pit 2
    - 0-3 ft bgs brown silty sand
    - 3-6.6 ft bgs mottled orange brown clay
  - Test Pit 3
    - 0-1 ft bgs brown clayey sand
    - 1-2.3 ft bgs orange brown silty clay
    - >2.3 ft bgs very hard grey clay
- This location was investigated early in the ROST investigation primarily by Geoprobe™. No samples were collected due to no PID response and no visual indication of contamination.
- Borings were collected from the following locations. Depth of refusal is noted for each:
  - TF-08-01 (6 ft bgs)
  - TF-08-02 (7.5 ft bgs)
  - TF-08-03 (2 ft bgs)
  - TF-08-04 (5 ft bgs)
  - TF-08-05 (4 ft bgs)
  - TF-08-06 (5 ft bgs)



Sample Locations
See Sheet 13 for enlargement.

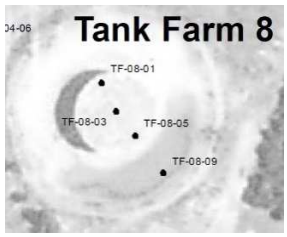
  - TF-08-07 (14 ft bgs)
  - TF-08-08 (13 ft bgs)
  - TF-08-09 (13 ft bgs)
  - TF-08-10 (13 ft bgs)
- All logs record a thin layer of topsoil over varied layers of medium stiff to stiff dry red and gray clays with some very fine sands and silts
- PID Readings were non-detect for all borings with the exception of 1.5 ppm in boring FT-08-06 between 2.5-3 ft bgs.

TF-08-07 3-4 ft bgs

TF-08-10 2-3 ft bgs

ROST Results

- ROST was used to verify Geoprobe™ results. Only four of the Geoprobe™ locations were investigated. TF-08-09, TF-08-05, TF-08-03, and TF-08-01.
- No hydrocarbon contamination was noted in any of the ROST locations.
- No analytical samples were collected from Tank 6.



ROST Sample Locations
Shown on 1956 aerial photograph.

Environmental Impacts/Conclusions

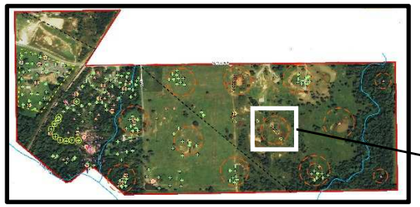
- No hydrocarbon contamination was noted in this area.

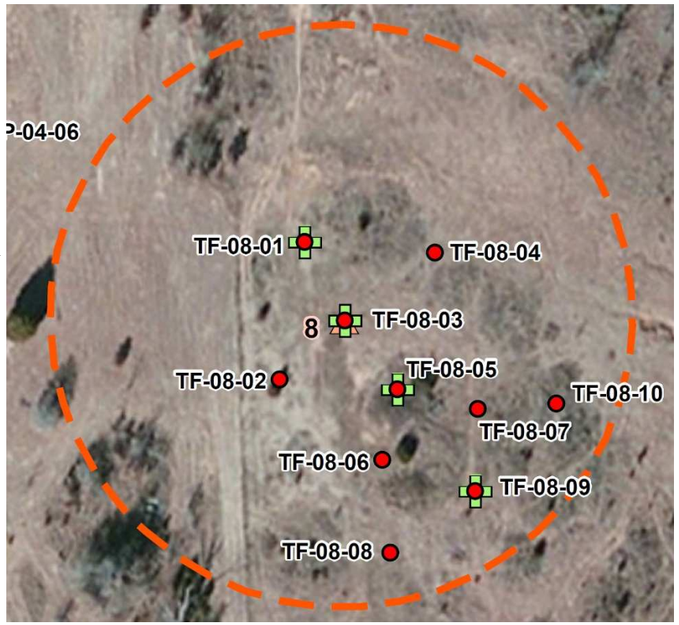
Data Gaps

- ROST cannot locate single ring hydrocarbon compounds.
- Actual contaminant levels have not been quantified. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Analytical data are needed to confirm the type and quantity of the contamination noted by the ROST.
- Groundwater from this area has not been evaluated.

Recommendations

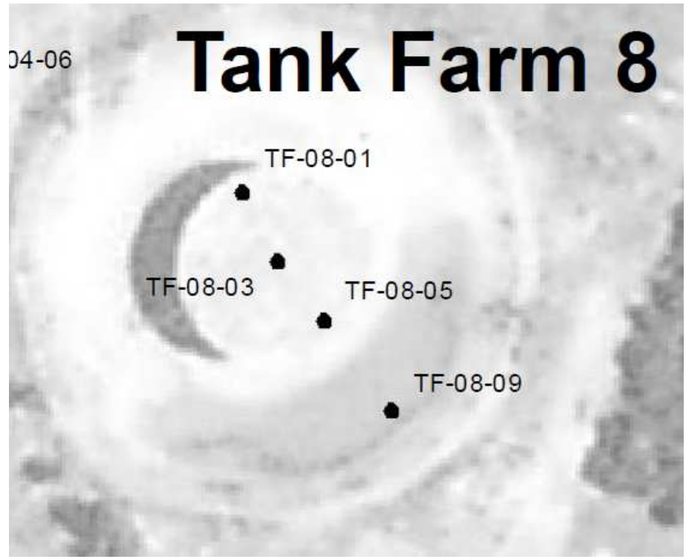
- Analytical data are needed to confirm the type and quantity of the contamination noted by the ROST.





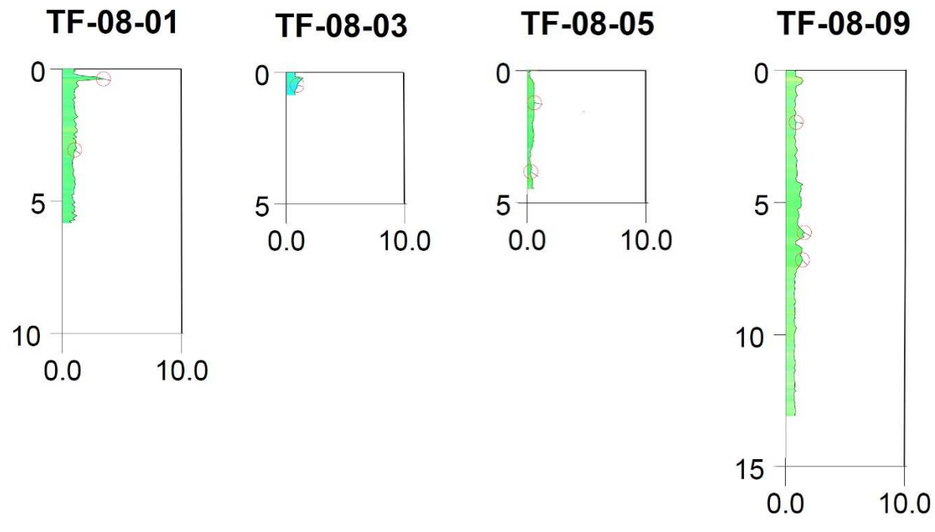
SAMPLE LOCATIONS

Geoprobe
Groundwater Sample
Rost
Soil Sample
Test Pit
Tank Center

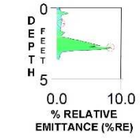


1956 AERIAL PHOTOGRAPH

FLUORESCENCE RESPONSE DATA



LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 8
Sheet 13

014795

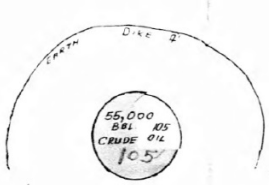
TANK FARM TANK 9

Sheet 14

Location

Location Description

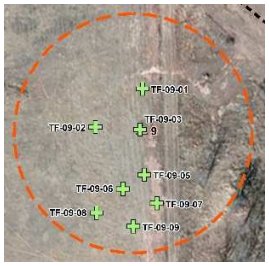
- Located on the southern edge of the Tank Farm.
- 1961 Sanborn Map
  - Tank shown on 1961 Sanborn Map.
  - Earthen dike around tank (4-ft tall).
  - Tank Size:
    - 55,000 barrels.
  - Labeled a crude oil tank.



1961 Sanborn Map
Shows 4-foot earth dike and 55,000 barrel crude oil tank.

Topography (Sheet 14)

- Surface drainage is toward the south, toward Sand Creek, per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was shallow, with only 4 to 6 feet of overburden.
- There are faint remains of the original earth dike.



Sample Locations
See Sheet 14 for enlargement.

ROST Results

- Little to no hydrocarbon contamination was noted in this area.

Environmental Impacts/Conclusions

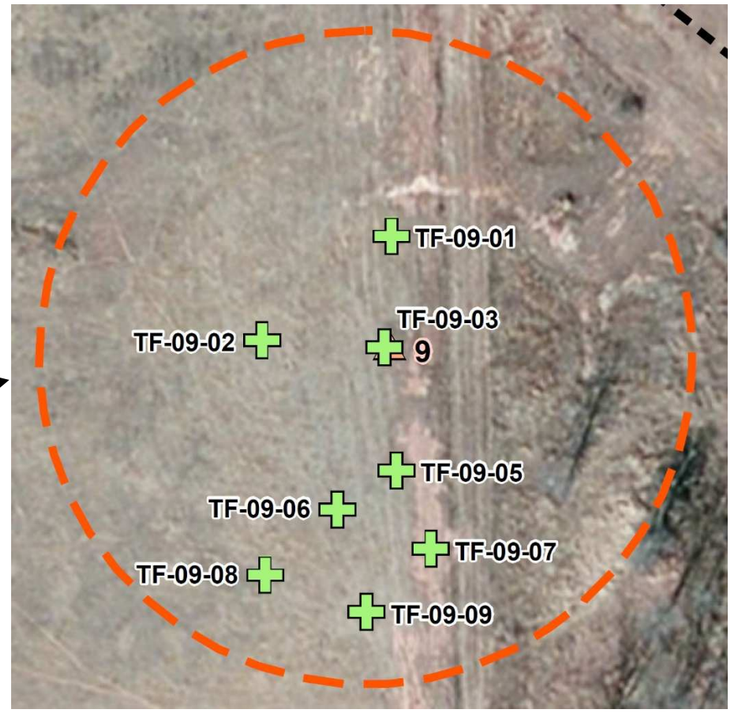
- Little to no hydrocarbon contamination was noted in this area.

Data Gaps

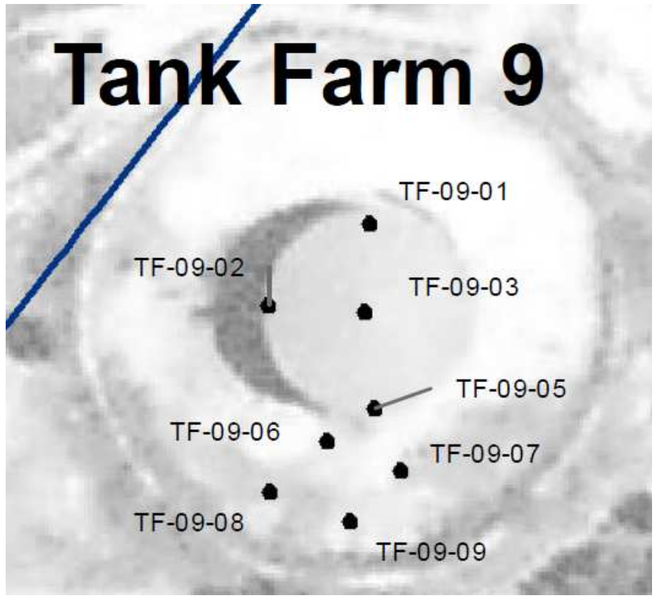
- ROST cannot locate single ring hydrocarbon compounds.
- Actual contaminant levels have not been quantified. ROST results can be influenced by matrix effects and relative fluorescence of different products. ROST data is qualitative only.
- Groundwater from this area has not been evaluated.

Recommendations

- No further investigation of this area is recommended.



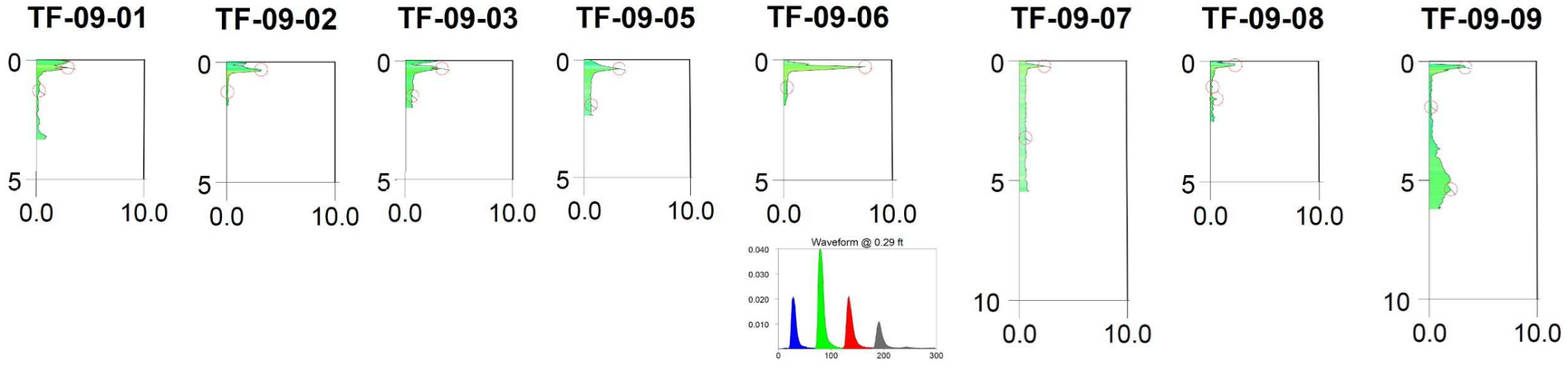
SAMPLE LOCATIONS



1956 AERIAL PHOTOGRAPH

- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center

FLUORESCENCE RESPONSE DATA



U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 9
Sheet 14

014797

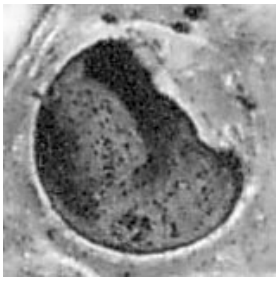
TANK FARM TANK AREA 10

Sheet 15

Location Description

- Located in the western area of the Tank Farm.
- Sanborn maps and historic aerial photographs.
  - Storage Tank not shown in 1915, 1920, 1923, or 1961 Sanborn Maps. No storage tank can be seen in 1941 or 1956 aerial photographs.
  - No evidence that the tank was ever constructed, although earthen berm and grading for tank pad are clearly visible in the 1956 aerial photograph.
  - 1956 photograph shows the earthen dike and tank pad being used as a pond-like structure.
  - Earthen dike around tank pad (4-ft tall).
- Current aerial photographs shows black staining on the surface in this area.
- Earthen dike is still in place.

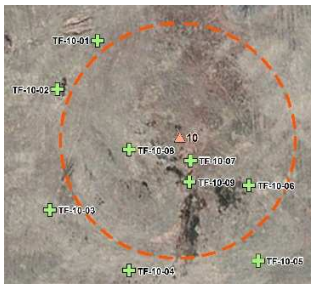
Location



1956 Aerial Photograph
Shows pond-like use of tank pad and berm.

Topography

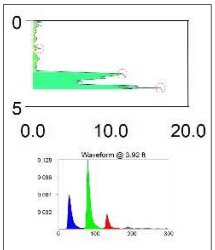
- Surface drainage is toward the southwest.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal around the outer edge of the earthen dike was very shallow, typically less than 1 ft.
- Depth to bedrock/refusal inside the bermed area was consistently between 3 to 5 ft bgs.



Sample Locations
On current aerial photograph shows sample locations and black staining.

ROST Results

- No hydrocarbon contamination was noted outside of the bermed area.
- Using a track mounted ROST, four locations were attempted inside the berm. No locations were attempted through the visible tarry material due to avoid significant down-time from decontamination of the ROST probe.
- TF-10-07, and TF-10-09 indicate that the contamination continues to refusal.
- No analytical samples were collected from Tank Area 10.
- The 3-D interpretation of the ROST data seems to indicate that the material is confined to a distinct area. It also indicates that vertical migration has been limited.



TF-10-07

Environmental Impacts/Conclusions

- This area seems to have been utilized as an oil/water separation pond.
- The residual contamination, is located primarily between 3 to 5 ft bgs.
- Material is clearly visible as seen in the site photographs and will likely require excavation and disposal.

3D Visualization

Data Gaps

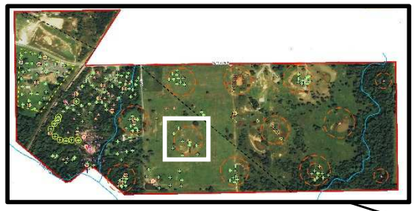
- The volume of material requiring excavation and disposal has not been fully quantified.
- Groundwater from this area has not been evaluated.

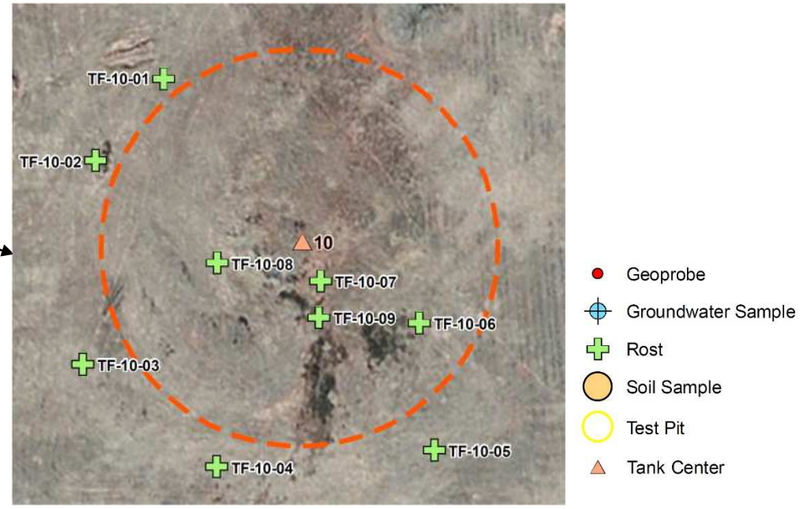
Site Photgraph
Very viscous crude oil like material.

Site Photograph
Showing visible contamination.

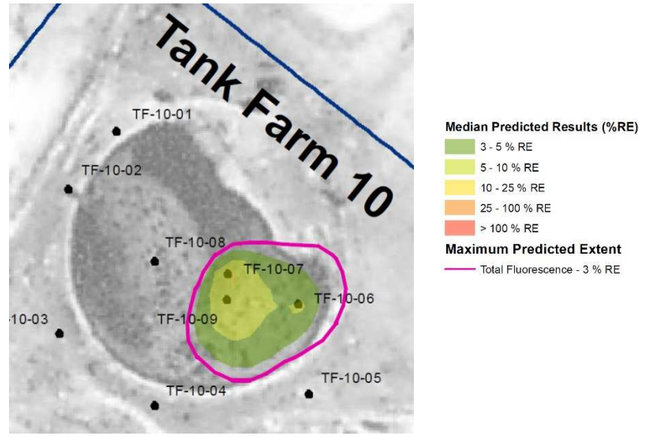
Recommendations

- Complete delineation of the waste material should be performed to determine waste characteristics, disposal options and volume of material to be disposed.
- A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination.



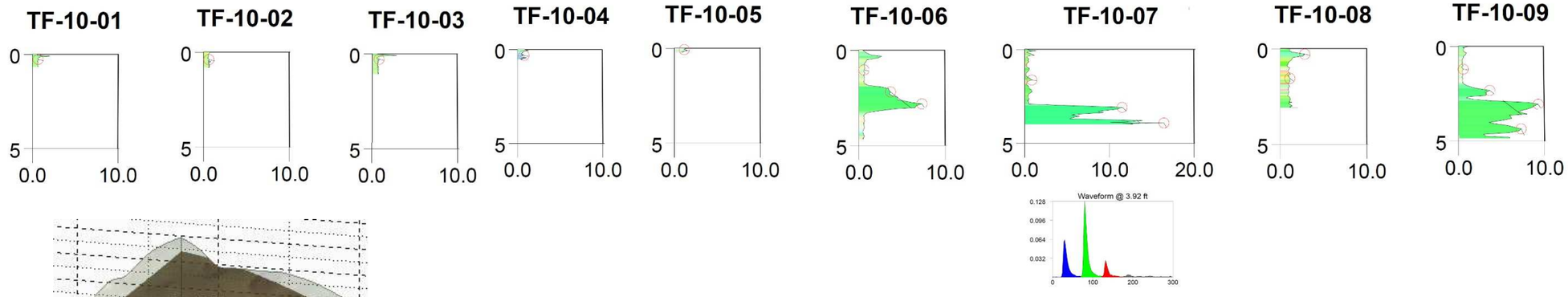


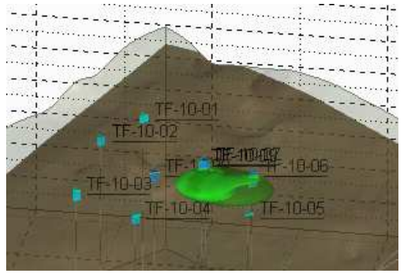
SAMPLE LOCATIONS



2D MAX
FLUORESCENCE

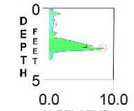
FLUORESCENCE RESPONSE DATA





3D
VISUALIZATION

LOCATION



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
TANK 10
Sheet 15

TANK FARM POND 3

Sheet 16

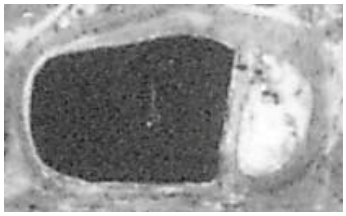
Location Description

- Located in the southwestern corner of the Tank Farm.
- Sanborn maps and historic aerial photographs.
  - Pond is not shown on Sanborn Maps.
  - Pond is clearly visible on 1941 and 1956 aerial photographs.
  - Pond appears to be divided into two sections, east and west.

Location

Topography

- Surface drainage is difficult to determine from aerial photography. Drainage appears to be to the west to the Sand Creek Tributary or due south directly to Sand Creek.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was approximately 5 ft bgs at the northeast corner and sloped to the west/southwest to a depth of more than 37 feet bgs.



1956 Aerial Photograph
Shows pond divided into east and west sections.

Sample Locations
Current aerial photograph shows sample locations and existing pond.

Test Pit/Boring Log Observations

- Test Pit Observations
  - Test Pit 11
    - 0.0-0.8 ft bgs brown agricultural sand
    - 0.8-3.5 ft bgs grey clayey fine sand
    - 3.5-9.5 ft bgs sandy clay

Test Pit Location

ROST Results

- ROST sample locations were chosen to surround Pond 3 as well as investigate the center.
- Five locations were chosen down-gradient outside the pond to determine if material had migrated to the south/southwest.
- No hydrocarbon contamination was noted outside of the bermed area.
- Using a track mounted ROST, four locations were attempted inside the footprint of the historic pond.
- No hydrocarbon contamination was noted in the pond locations.
- One analytical sample was collected from the area of Pond 3. The sample was collected from a sand pile at the edge of the existing pond and analyzed for VOCs, SVOCs and Metals. No analytes were detected above the detection limit. Several compounds had detection limits above the project action limits (See Sheet 16).

Environmental Impacts/Conclusions

- No impact is associated with this portion of the Tank Farm.

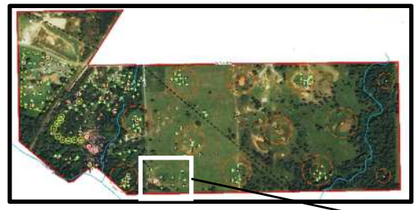
- A surface XRF investigation was performed on the surface sands around the existing pond and on a sand pile near the edge of the pond (Pink dots on Sample Location Map). The maximum Pb XRF reading for this area was 40.68 ppm.
- This area seems to have been utilized as a separation pond. The exact nature of its use is unknown. If this pond was used as a produced water separation and evaporation pond, then the possibility exists of an accumulation of NORM.

Data Gaps

- Groundwater from this area has not been evaluated.
- Pond was not investigated for possible accumulation of NORM.
- No subsurface samples were collected for XRF screening or laboratory metals analysis.

Recommendations

- Investigation of the use of the pond should be continued. Sampling may be required to determine if an accumulation of NORM has occurred.



SAMPLE LOCATIONS

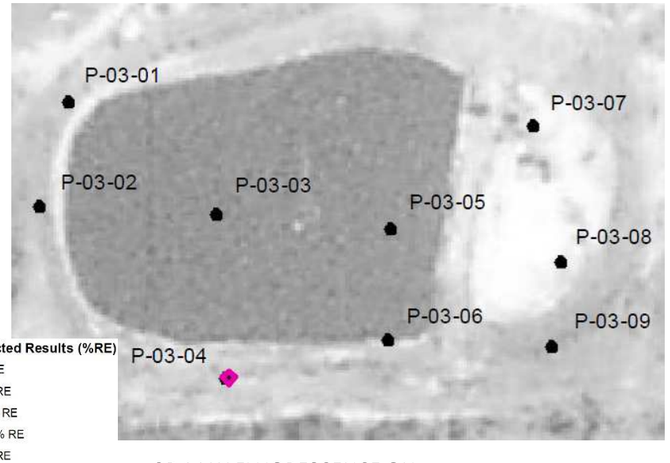
GRO	ND
DRO	ND
ORO	ND
Total	ND

Units - mg/kg

Loc	Analyte	Result	Q	Action Limit	AC
P-03-SAND	Benzo(a)anthracene	190	U*	160	1E6
	Benzo(b)fluoranthene	190	U*	160	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	190	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	190	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	190	U*	16	1E6

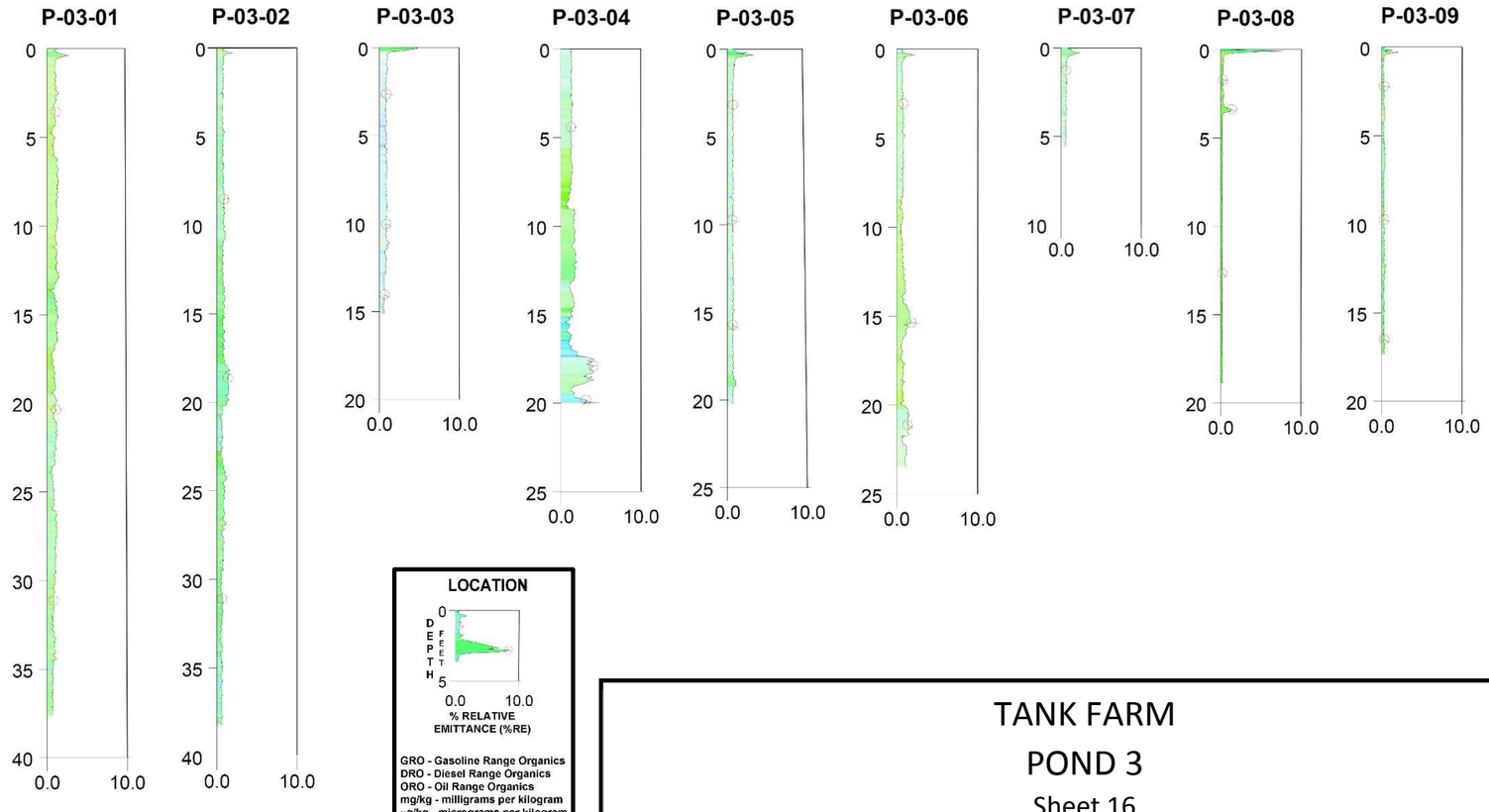
Units - µg/kg

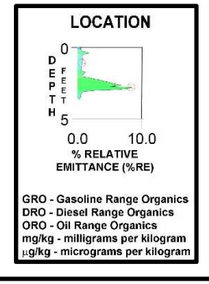
7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level



2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH

FLUORESCENCE RESPONSE DATA





U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
POND 3
Sheet 16

014803

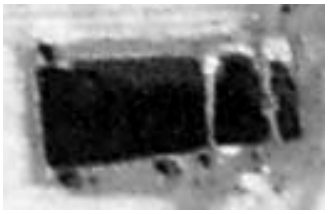
TANK FARM POND 4

Sheet 17

Location Description

Location

- This pond was an oil/water separation pond located in the center of the Tank Farm, just northwest of Tank 8.
- Sanborn maps and historic aerial photographs.
  - Pond is shown on 1923 Sanborn Map as a smaller "oil pond". The pond is not shown on the 1961 Sanborn Map.
  - Pond is clearly visible on 1941 and 1956 photographs.
  - Pond appears in the 1941 photograph to be divided into three sections. Divisions are less defined on 1956 photograph.
- This area was fenced and secured. For this reason, the investigation was focused on the perimeter of the fenced area.



1941 Aerial Photograph
Shows pond divided into three sections.

Test Pits, Boring Logs and Samples

- Test Pits – Two test pits were completed in this area during the September Geophysical survey event.
  - Test Pit 5 Located near P-04-01
    - 0-1.8 ft bgs brown medium sand
    - 1.8-5.4 ft bgs mottled orange brown sandy hard clay
    - >5.4 ft bgs grey hard fine sandy clay
  - Test Pit 6 Located near P-04-03
    - 0-0.4 ft bgs limited tar/oil just below grass
    - 0.4-1.8 ft bgs brown organic sand
    - 1.8-3.6 ft bgs mottled dark grey, orange-brown sand
    - 3.6-4.5 ft bgs hard light grey sandy clay
    - >4.5 ft bgs sandstone

- This location was investigated early in the ROST investigation primarily by Geoprobe™.
- Borings were collected from the following locations. Depth of refusal is noted for each:

  - P-04-01 (4.5 ft bgs)
  - P-04-02 (4 ft bgs)
  - P-04-03 (4.5 ft bgs)
  - P-04-04 (4 ft bgs)
  - P-04-05 (1.5 ft bgs)
  - P-04-06 (2 ft bgs)

Sample Locations
On current aerial photograph.

- All logs record a thin layer of topsoil over varied layers of medium stiff to stiff dry red and gray clays with some very fine sands and silts
- PID Readings were non-detect for all borings with the exception of P-04-01. Maximum PID reading in P-04-01 was 0.15 ppm.
- The sample collected from P-04-01contained a varied range of organic compounds. The levels of the compounds were not sufficient to accurately determine the type of material. (See Sheet 17)

P-04-06 1-2 ft bgs

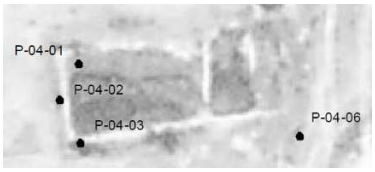
P-04-03 3-4 ft bgs

Topography

- The pond is located at the end of a bedrock outcrop at the top of a hill. Surface topography slopes away to the southeast, south and southwest from the pond.
- Depth to bedrock/refusal outside of the pond area for all locations was shallow, between 1 and 5 ft bgs.

ROST Results

- ROST locations were chosen to verify the information determined from the Geoprobe™ investigation.
- No significant contamination was encountered outside of the fenced area.



ROST Locations
Shown on 1956 Aerial Photograph

Environmental Impacts/Conclusions

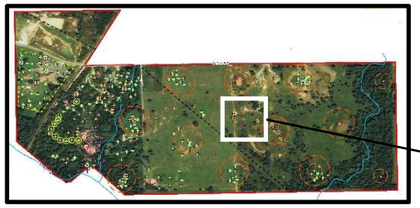
- Minimal contamination was detected outside of the fenced area.

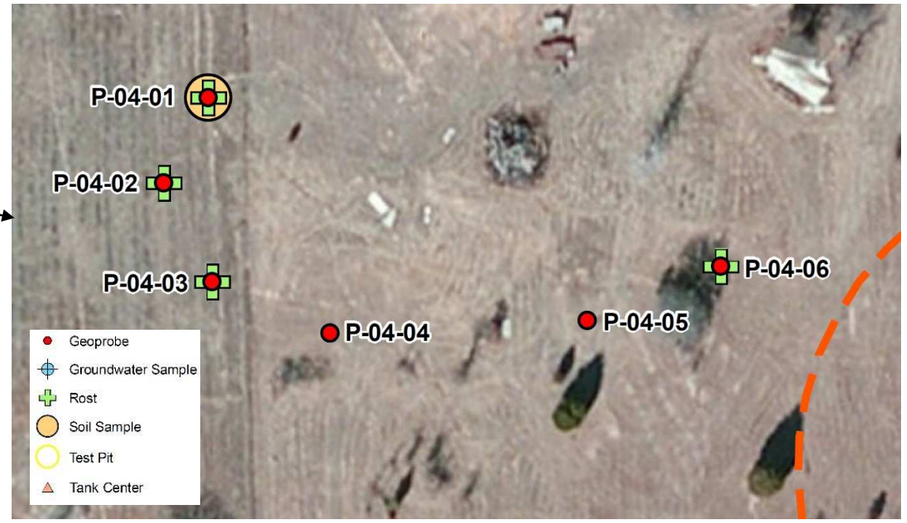
Data Gaps

- The interior of the pond was not investigated due to the area being fenced off with limited access, therefor, the delineation of hydrocarbon material inside the pond area is unknown and should be investigated.

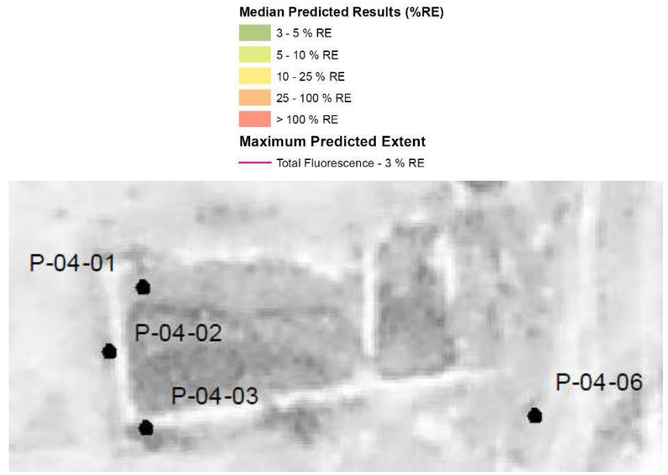
Recommendations

- Complete delineation of the pond area should be performed.





SAMPLE LOCATIONS



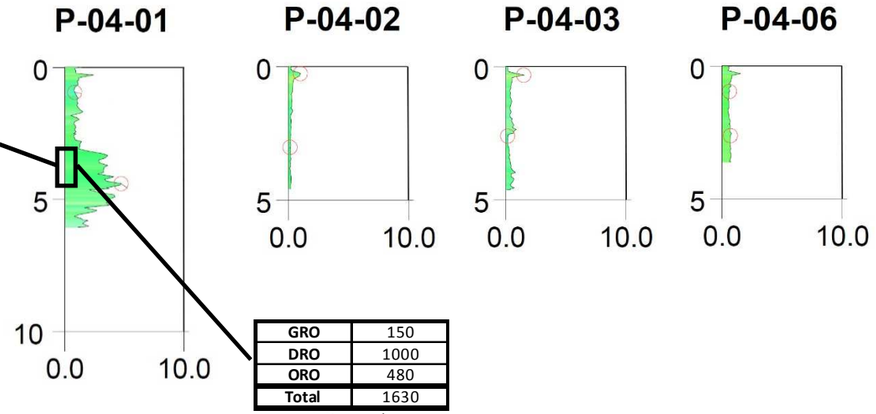
2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH

Loc	Analyte	Result	Q	Action Limit	AC
P-04-01 3.5 to 4.5 Ft bgs	1,2-Dibromoethane	270	U	36	1E6
	1,2-Dibromo-3-chloropropane	270	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7700	U*	4900	1E6
	Hexachloroethane	4000	U*	1800	1E6
	4-Chloroaniline	7700	U*	2700	1E6
	Hexachlorobutadiene	4000	U*	1200	1E6
	Hexachlorocyclo-pentadiene	7700	U	1800	HI=1
	2,6-Dinitrotoluene	4000	U*	360	1E6
	Acenaphthylene	**25**	LJ	NP	HI=1
	Dibenzofuran	**100**		73000	HI=1
	2,4-Dinitrotoluene	4000	U*	1700	1E6
	Fluorene	**140**		2400000	HI=1
	4-Chlorophenyl-phenyl ether	4000	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7700	U*	5100	HI=1
	Hexachlorobenzene	4000	U*	210	1E6
	Atrazine	7700	U*	2400	1E6
	Phenanthrene	**200**		NP	HI=1
	Anthracene	**230**		18000000	HI=1
	3,3'-Dichlorobenzidine	7700	U*	1200	1E6
	Benzo(a)anthracene	4000	U*	160	1E6
	Chrysene	**140**		15000	1E6
	Benzo(b)fluoranthene	**38**	LJ	160	1E6
	Benzo(b)fluoranthene	4000	U*	160	1E6
	Benzo(k)fluoranthene	4000	U*	1600	1E6
	Benzo(a)pyrene	40	U	16	1E6
	Benzo(a)pyrene	4000	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	4000	U*	160	1E6
	Dibenzo(a,h)anthracene	40	U	16	1E6
	Dibenzo(a,h)anthracene	4000	U*	16	1E6

Units - µg/kg

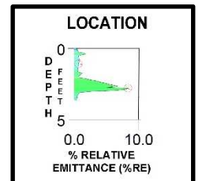
7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

FLUORESCENCE RESPONSE DATA



GRO	150
DRO	1000
ORO	480
Total	1630

Units - mg/kg



U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

TANK FARM
POND 4
Sheet 17

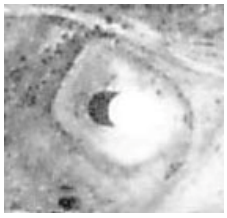
014806

Tank Farm Tank 13

Location

Location Description

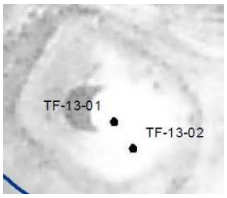
- Located in the northwestern corner of the Tank Farm.
- Sanborn maps and historic aerial photographs.
  - Tank is not shown on Sanborn Maps.
  - Pond is not visible on 1941 aerial photograph and appears on the 1956 aerial photograph.
  - Tank is approximately 5,000 to 10,000 barrels in size.
  - Aerial photograph indicates an odd shaped earthen berm similar to other tanks.



1956 Aerial Photograph

Topography (Sheet 10)

- Surface drainage is toward the west/northwest, per ponding within the berm as seen in the 1956 aerial photograph.
- The groundwater table was not encountered during subsurface investigation.
- Depth to bedrock/refusal was less than 1 foot.



Sample Locations
One sample near the center of the tank, and one down-gradient.

ROST Results

- Two attempts were made at each location shown on the sampling map.
- The ROST rig had refusal at less than 1 ft bgs at each attempt.
- No ROST results were obtained for this tank area.

Environmental Impacts/Conclusions

- Little to no contamination was found in this area.
- Little to no overburden was encountered in this area.

Data Gaps

- No investigation was performed to the west/northwest (downgradient) of the tank location.

Recommendations

- Sampling of the west/northwest portion of the bermed area is recommended to complete the investigation of this tank.

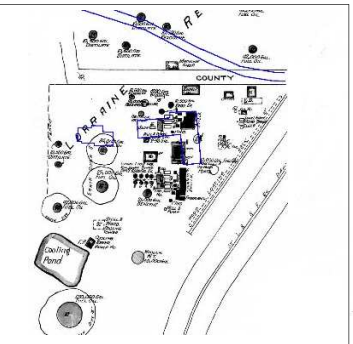
LORRAINE REFINERY

Sheets 19A-19E

Location Description

Location

- Located on the west end of the Wilcox Oil Company Superfund Site. Property is to the west of the railroad line. This property encompasses the process area and product storage tanks. Crude oil tanks for this refinery were located across the road to the north in the North Tank Farm area.
- 1923 Sanborn Map (See Sheet 19A)
  - Stills, Run-Down Tanks, Cooling Tower, Office, Agitator
  - Storage for:
    - Gasoline, Kerosene, Benzene, Fuel Oils
  - The process area is located in the central portion of this property, under and just south of the church building.
  - Storage tanks on this property typically ranged in size from 100 to 2,000 barrels
    - One 10,000 barrel fuel oil tank was located on the southern portion of the property.
- 1961 Sanborn Map
  - No evidence of Lorraine Refinery
- 1941 and 1956 Aerial Photographs
  - No evidence of Lorraine Refinery



1923 Sanborn Map
Showing product storage area.
See Sheet 19A for larger size.

Test Pit/Boring Log Observations

- Boring Logs and Samples
  - LOR-06 (Sheet 19B)
    - 0-1 ft bgs asphalt on asphalt base.
    - 1.5–4 ft bgs soft dry brown and gray fine sandy clay.
    - 4-12 ft bgs red and white sandy clay.
    - 12-13.5 ft bgs stiff dry red and white sandy clay
    - Highest PID Readings between 3-4 ft (1.7 ppm)
    - ROST results highest between 4.5 and 9.5 ft
    - Sample results (Sheet 19B) indicate mid-range to heavy organic constituents consistent with weathered crude oil or mixed hydrocarbon material.
  - LOR-09 (Sheet 19D)
    - 0-8.5 ft bgs thin layer of topsoil over reddish-brown soft medium plastic clay.
    - 8.5-10.5 ft bgs moist brown and gray sandy clay, strong hydrocarbon odor. No free product or product staining was noted in this core.
    - 10.5-12.5 red stiff moist sandy clay.
    - Highest PID readings between 8.5 and 10.5 ft bgs, 350 ppm.
    - ROST encountered refusal at 8.5 ft bgs, the moist brown and gray sandy clay layer.
    - Sample results indicate a lighter hydrocarbon fraction with some heavy constituents, consistent with a fuel oil or mixed hydrocarbon product.

Sample Locations

LOR-06 11-12 ft bgs

- LOR-12 (Sheet 19C1 and 19C2)
  - 0-1.3 ft bgs asphalt and asphalt base.
  - 1.3-12.5 ft bgs mix of medium stiff, medium plastic red, white, gray and brown clays with some fine sand lenses.
  - 12.5-18.5 ft bgs red sandy clay
  - 18.5-25 stiff dry gray low plasticity clay
  - Highest PID readings from 11.5-15 ft bgs, 500 ppm.
  - ROST encountered refusal at 11.5 ft bgs.
  - Sample results indicate hydrocarbon compounds consistent with a refined product in the diesel range with possible mixing with other products/hydrocarbons.

LOR-12 16-17 ft bgs

- LOR-18 (Sheet 19C1 and 19C2)
  - Maximum PID reading was 175 ppm at 6-8 ft bgs.
  - Sample results indicate a possible crude with intermixing of other hydrocarbon products.
  - The concentration of benzo(a)pyrene was above the project action limits.
  - An XRF Screening of the core yielded an unusually high lead (Pb) level at the surface of the core. The value was significantly above the calibration range for the device but indicated percent levels of Pb. By 1 ft bgs, the Pb level had decreased to less than 50 ppm.
- LOR-25A (Sheet 19E)
  - 0-2.5 ft bgs medium dense red to white sand and silt
  - 2.5-9.5 soft dry red silty clay with little very fine sand
  - 10-11.5 soft wet brown clay with traces of fine sand, some hydrocarbon odor.
  - 11.5-14.5 stiff dry gray silty clay
  - 14.5-15 stiff dry red silty clay
  - Maximum PID reading was 28 ppm at 10-11 ft bgs.
  - VOC and SVOC Sample results were non-detect for all hydrocarbon compounds. GRO/DRO/ORO results indicated a slight presence of hydrocarbon compounds.
  - The XRF screening of the core yielded a high concentration (3,500 ppm) of Pb above the project action limit within 1 foot of the surface.

LOR-25A 9-10

CPT Results

- CPT borings were completed for LOR-01 through LOR-12. Full results are given in Appendix P of the Trip Report.
- Results indicate interbedded layers of materials exhibiting the behaviors of clays, silts and sands.
- A thin surface layer of sandier material is followed in most logs by a layer of clay ranging from approximately 2 to 7 ft thick.
- Under the clay layer, layers of silty type material and/or sandier type materials are encountered.
- Based on boring logs from DPT activities, it appears that the CPT is correlating different clay lenses (silty clay, sandy clay, etc.) as silts, sands, etc. The CPT measures tip force and sleeve friction and may be preferentially reading behaviors of the larger particle sizes in the matrix. For Example:
  - LOR-06 core log indicates “4-12 ft bgs red and white sandy clay”. CPT log indicates a “sensitive fine grained” material from 4 to 6 ft bgs, followed by thin layers of: “silty clay to clay”, “clayey silt to silty clay”, “sandy silt to clayey silt”, “sand to silty sand”, and “sand” to a depth of approximately 13 ft bgs.

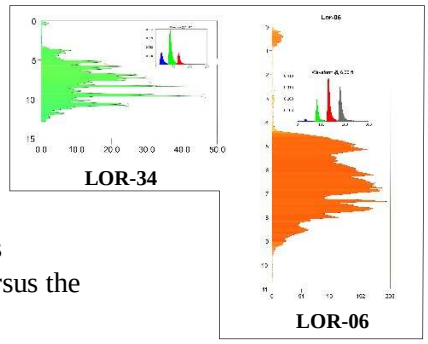
- LOR-12 core log indicates "1.3-12.5 ft bgs mix of medium stiff, medium plastic red, white, gray and brown clays with some fine sand lenses". CPT log indicates interbedded layers from "sand to silty sand", "silty sand to sandy silt", "sand", "clay", "clayey silt to silty clay", and "sandy silt to clayey silt".

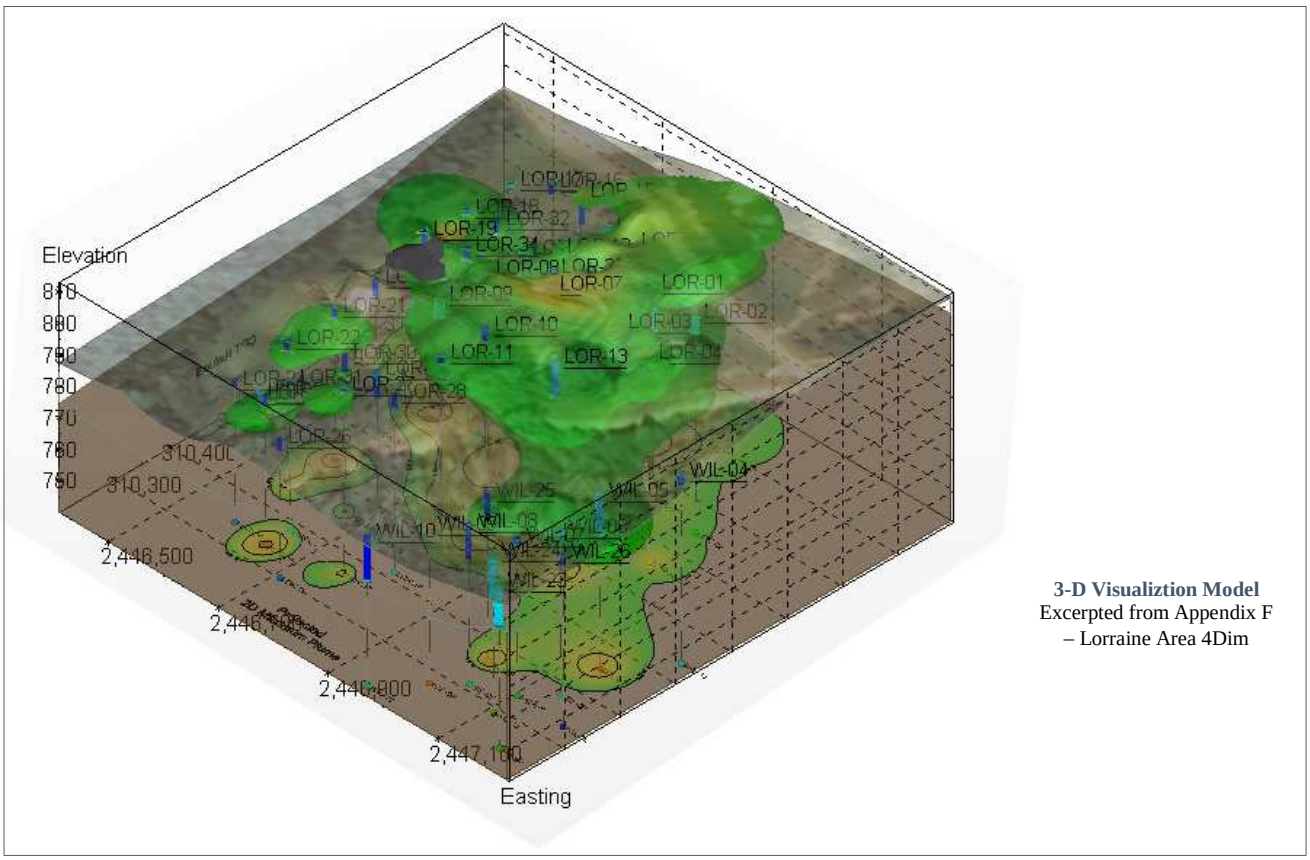
Topography

- Surface drainage is toward Sand Creek and its tributaries that border the site to the west. A well-defined drainage pathway was noted from the area of LOR-12 down into a trough-like depression that leaves the site at LOR-18, which was the location of the original county road shown on the 1923 Sanborn and the 1941 and 1956 aerial photographs.
- Depth to bedrock/refusal varies greatly through this area, between 3-5 feet at the northwest corner of the site to approximately 15 ft bgs for a significant portion of the site.

ROST Results

- Wide variety of petroleum hydrocarbon mixtures in this area.
- LOR-34 (Sheet 19D) and LOR-06 (Sheet 19B) clearly indicate the presence of different products.
- Indicates multiple spills of multiple products throughout.
- Product is being retained in the sandy clay lenses. The 3-D model is difficult to visualize due to the ratio of the overburden thickness versus the horizontal extent of contamination but is given below.





3-D Visualiztion Model
Excerpted from Appendix F – Lorraine Area 4Dim

Water Sampling Results

- Analytical results from the sample collected from a temporary well point installed at LOR-18 indicated the presence of hydrocarbon compounds above the Risk Based Screening Levels.

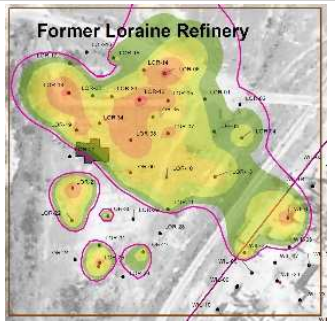
GROUNDWATER

Location	Analyte	Risk Based Screening Level	MCL	Result	Q	Units
LOR-18	Isopropylbenzene	450		29		ug/L
	2-Methylnaphthalene	36		**91**	*	ug/L
	2-Methylnaphthalene	36		35		ug/L
	Benzo(a)anthracene	0.012		**0.17**	LJ	ug/L
	Benzo(b)fluoranthene	0.034	0.2	**0.16**	LJ	ug/L
	Benzo(g,h,i)perylene	NP		0.17	LJ	ug/L
	Chrysene	3.4		0.65	LJ	ug/L
	Dibenzofuran	7.9		1.7		ug/L
	Fluoranthene	800		0.4	LJ	ug/L
	Fluorene	290		3.8		ug/L
	Indeno(1,2,3-cd)pyrene	0.034		**0.11**	LJ	ug/L
	Naphthalene	0.17		**26**	*	ug/L
	Naphthalene	0.17		**16**		ug/L
	Phenanthrene	NP		26	*	ug/L
	Phenanthrene	NP		4		ug/L
	Pyrene	120		0.62	LJ	ug/L

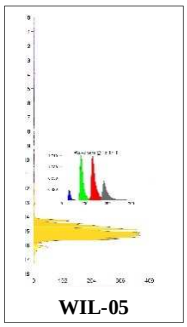
ug/L - Micrograms per Liter
MCL - Maximum contaminant level
* - Not recommended for use
LJ - Estimated, low

Environmental Impacts/Conclusions

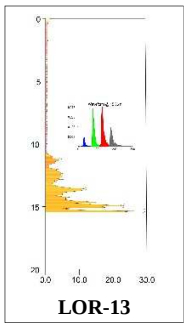
- Significant amounts of residual product.
- Multiple types of products.
- Product is bound mainly in less permeable sandy clay lenses bounded by confining clay lenses.
- Impact to surface creek is probable in the area to the northwest near LOR-18. Based on the 1923 Sanborn map, most process and storage was performed near the center of the northern portion of the area. The county road ran straight from the area of LOR-01 due west, to LOR-18. The old road bed could have acted as a preferential pathway for contamination.
- The 2-D Max fluorescence indicates the possibility that contamination has migrated to the east, under the railroad, to the Wilcox Site. Waveforms of contaminants at WIL-25 and WIL-05 appear to be the same as the waveforms from LOR-13.
- Pockets of contamination are visible to the south, from the area of historic tank locations.
- Possible impact to the church buildings through vapor intrusion.
- There is anecdotal evidence of the digging of the footers for a church addition that immediately filled with an oily product layer.



2-D Max Fluorescence
See Sheet 8A for larger size.



WIL-05



LOR-13

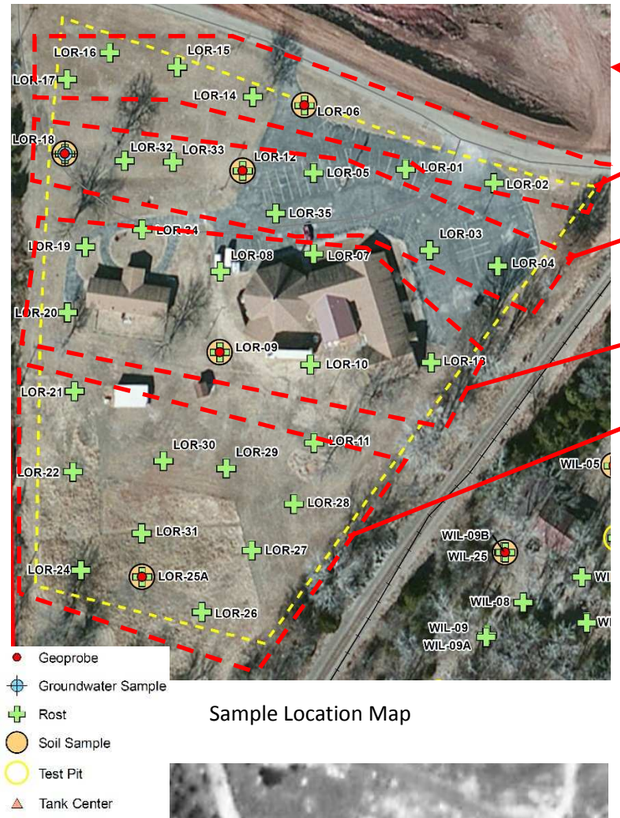
- Possible impact to groundwater due to the well construction of the church drinking water well or other contamination migration. Anecdotal reports indicate a layer of oil on the water in the church well.
- Localized surficial lead contamination was noted at two locations (LOR-18 and LOR-25A). XRF readings for these locations were significantly higher than the calibration range for the instrument and should be confirmed with traditional sampling and analysis.

Data Gaps

- ROST cannot locate single ring hydrocarbon compounds. Sanborn maps indicate benzene storage tanks and run-down tanks that would have contained BTEX compounds.
- The pink contour line on the 2-D Max Contamination diagram statistically estimates background fluorescence at an 80% confidence level, based on actual ROST data. This result, along with the 3-D results should be used to create a targeted, optimized sampling strategy to horizontally and vertically delineate the contamination above risk based levels.
- Groundwater from this area has not been fully evaluated.
- No borings were performed along the power line right-of-way that runs along the western side of the property, the southern portion of the property or the eastern portion between the church fence line and the railroad bed. The presence of a shallow water main and natural gas pipeline precluded access to this portion of the property due to the weight of the ROST rig.

Recommendations

- Further delineation of this area is required to determine remedial alternatives. A targeted sampling strategy should be designed based on these results to vertically and horizontally quantitatively delineate the contamination. Initial delineation should be driven by TPH. Measurement of individual compounds is difficult due to masking effects of the high levels of petroleum hydrocarbon products. Sampling for individual risk compounds should not be attempted until after the majority of the TPH contamination has been addressed. Remedial alternatives will need to address the full range of hydrocarbons.
- Waste characterization samples from areas indicating different products should be collected and analyzed to determine appropriate waste disposal methods.
- Test pitting would be appropriate to determine the presence or absence of free product.
- Further investigation should be performed to the west of LOR-18 to determine potential impact to Sand Creek.
- Localized lead contamination should be investigated.



Sample Location Map

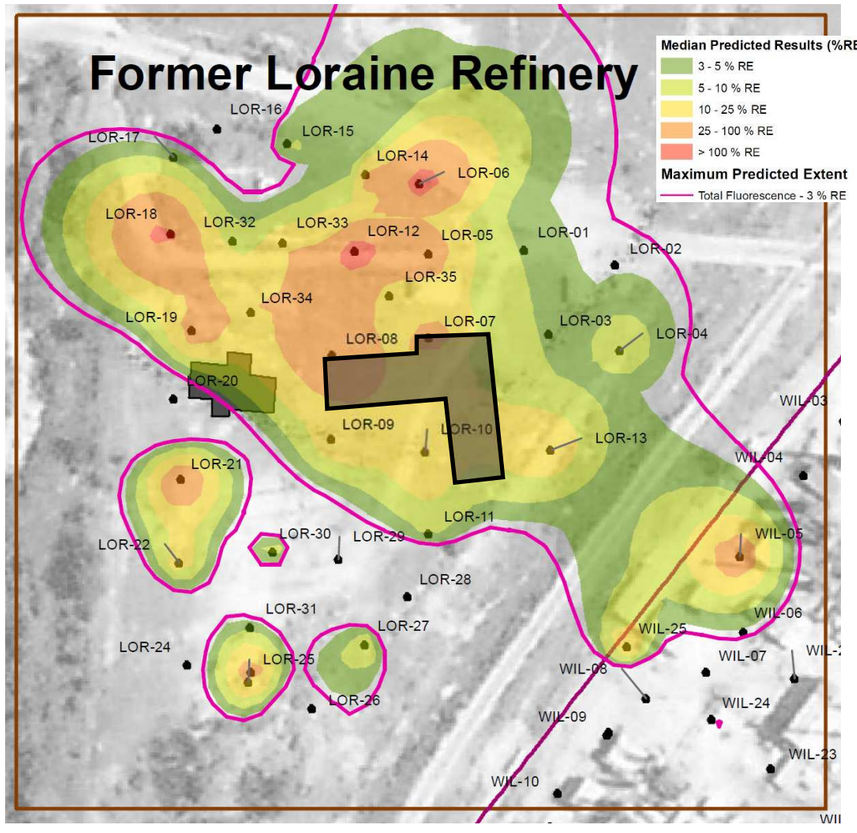
1941 Aerial Photograph

SHEET 19B

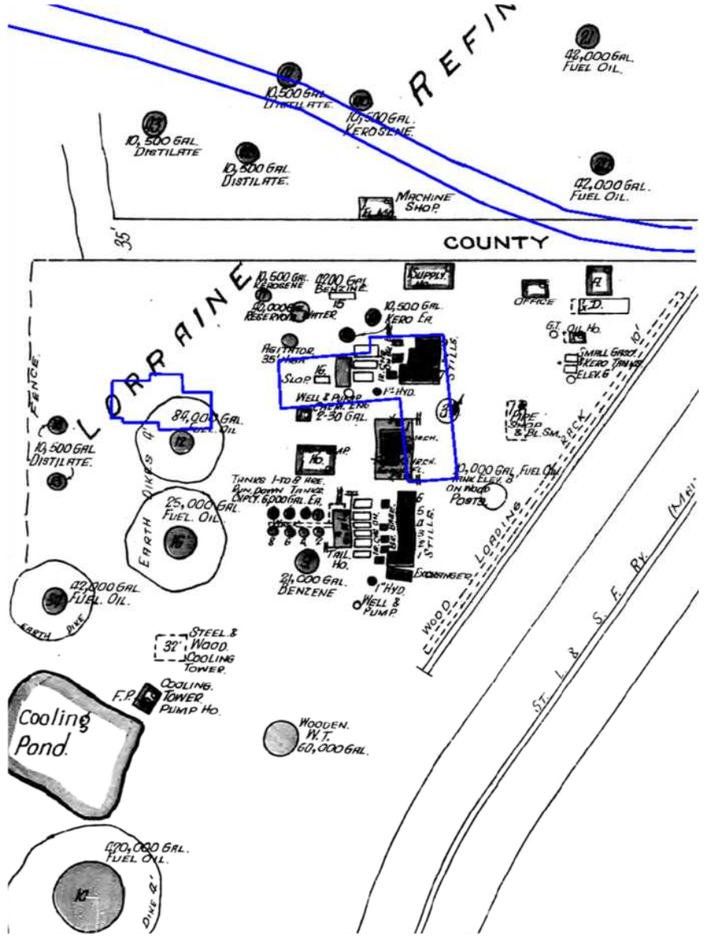
SHEETS 19C1 and 19C2

SHEET 19D

SHEET 19E



2-D Max Fluorescence Results



1923 Sanborn Map
With current road, church and rectory.

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

014813

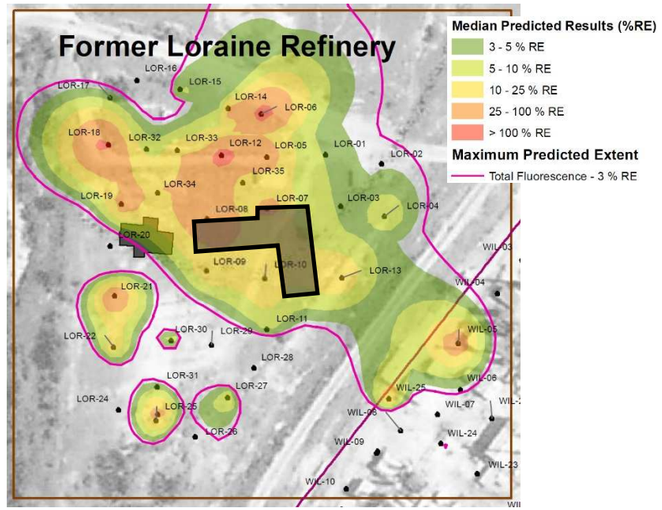
LORRAINE REFINERY

Sheet 19A

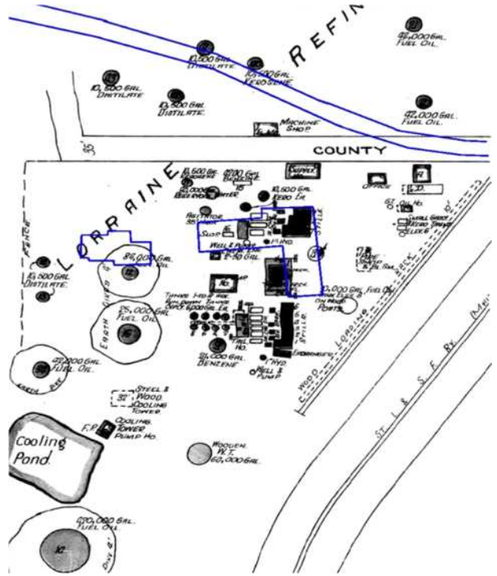
This Sheet

- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center

SAMPLE LOCATIONS

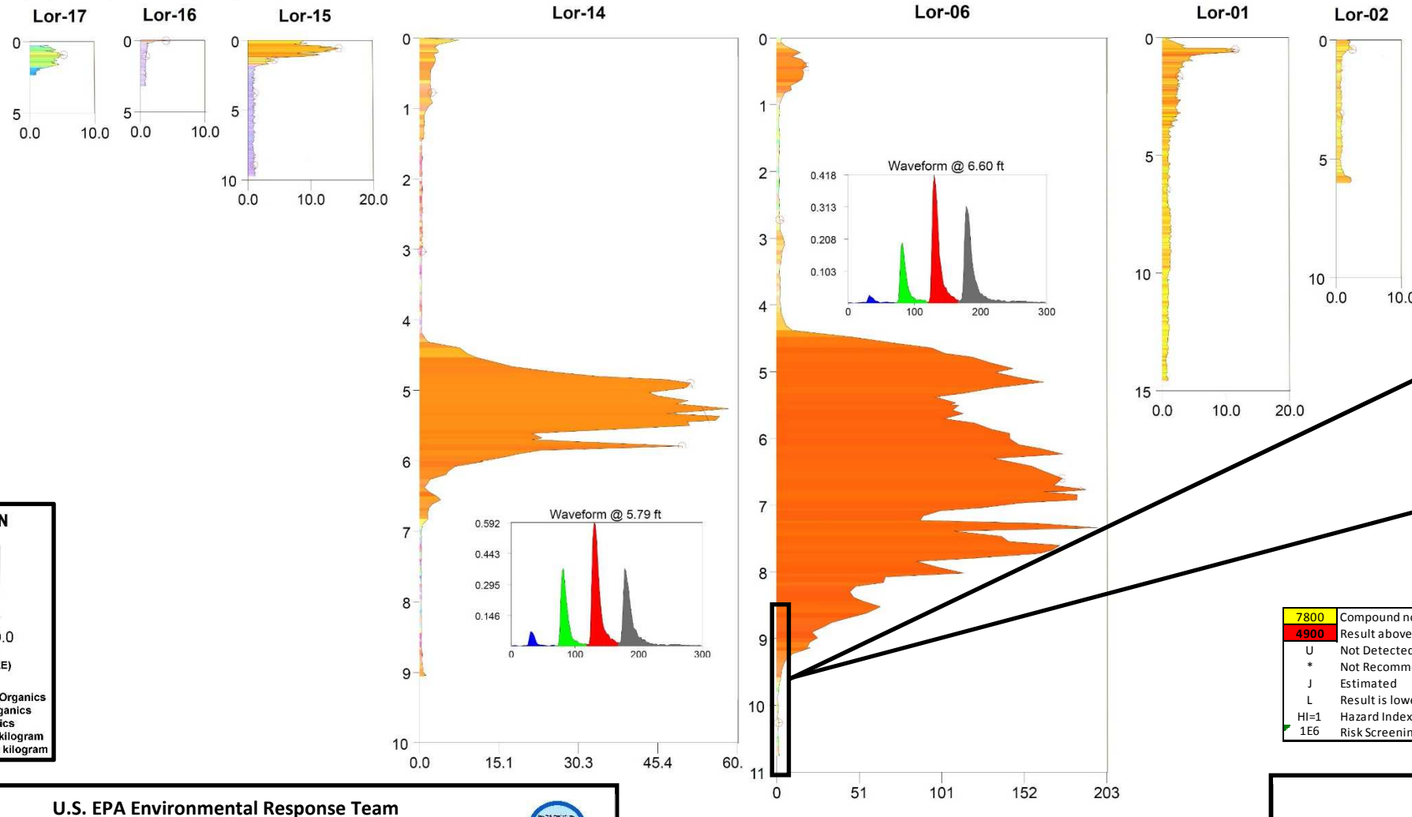


2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH



1923 SANBORN MAP

FLUORESCENCE RESPONSE DATA



GRO	180
DRO	5200
ORO	1200
Total	6580

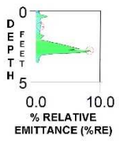
Units – mg/kg

Loc	Analyte	Result	Q	Action Limit	AC
LOR-06 7.5 to 10 Ft bgs	Cyclohexane	**130**	LJ	6500000	HI=1
	Methylcyclohexane	**800**		NP	HI=1
	1,2-Dibromoethane	270	U	36	1E6
	Isopropylbenzene	**110**	LJ	1900000	HI=1
	1,2-Dibromo-3-chloropropane	270	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7600	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	Naphthalene	**410**	*	130000	HI=1
	Naphthalene	**860**		130000	HI=1
	4-Chloroaniline	7600	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	**4200**	*	240000	HI=1
	2-Methylnaphthalene	**2400**	*	240000	HI=1
	Hexachlorocyclo-pentadiene	7600	U	1800	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	**470**	J	2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7600	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7600	U*	2400	1E6
	Phenanthrene	**1400**	*	NP	HI=1
	Phenanthrene	**2400**		NP	HI=1
	Anthracene	**450**		18000000	HI=1
	Pyrene	**230**		1800000	HI=1
	3,3'-Dichlorobenzidine	7600	U*	1200	1E6
	Benzo(a)anthracene	3900	U*	160	1E6
	Chrysene	**440**		15000	1E6
	Benzo(b)fluoranthene	3900	U*	160	1E6
	Benzo(b)fluoranthene	**82**		160	1E6
	Benzo(k)fluoranthene	**30**	LJ	1600	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	3900	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	**13**	LJ	160	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6
	Benzo(g,h,i)perylene	**23**	LJ	NP	HI=1

Units – µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

LOCATION



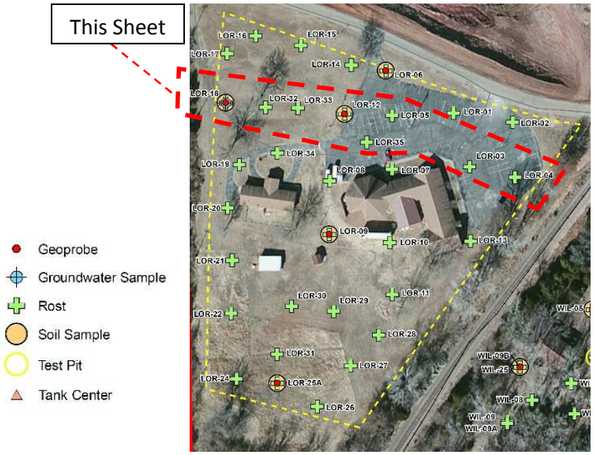
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

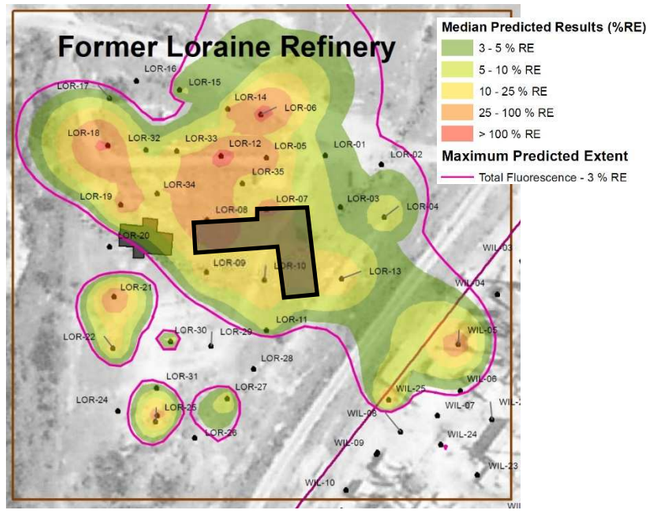
014814

LORRAINE REFINERY

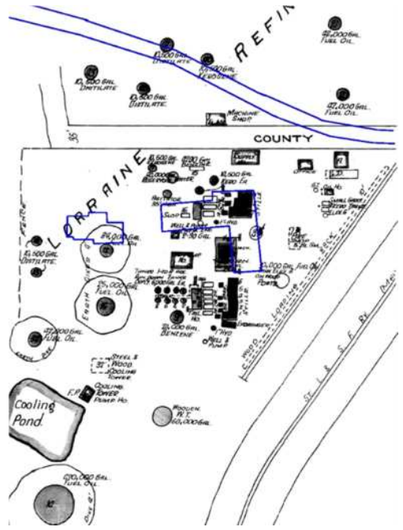
Sheet 19B



SAMPLE LOCATIONS

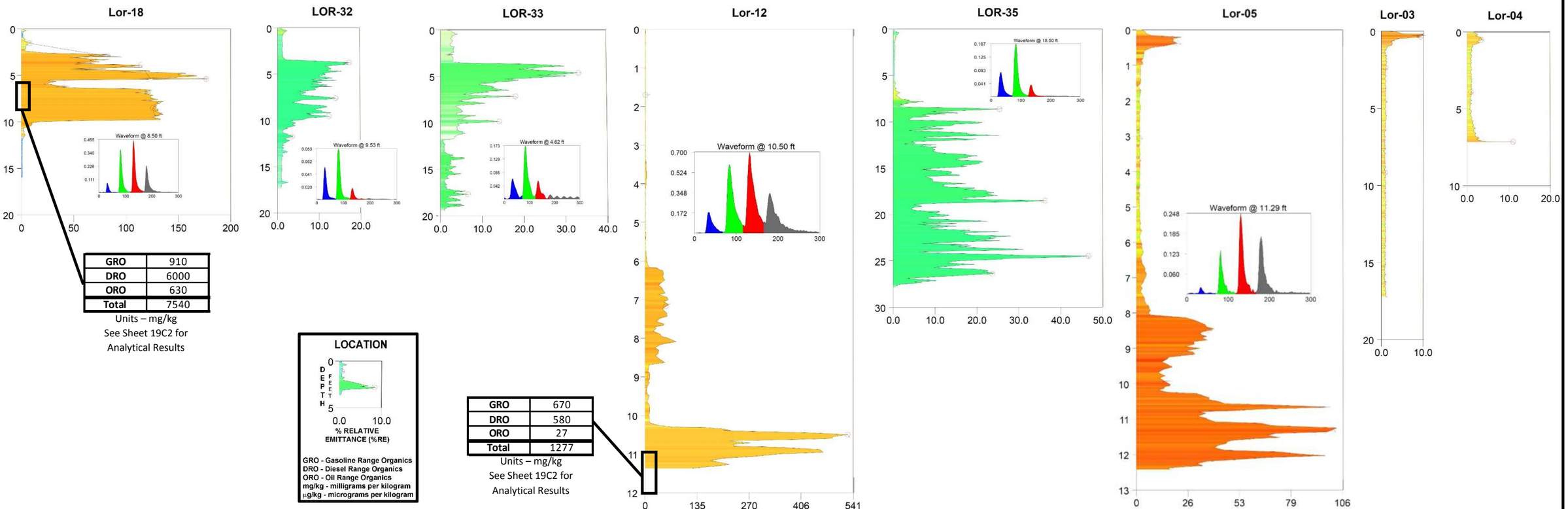


2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH



1923 SANBORN MAP

FLUORESCENCE RESPONSE DATA



GRO	910
DRO	6000
ORO	630
Total	7540

Units – mg/kg
See Sheet 19C2 for
Analytical Results

LOCATION

DEPTH FEET

% RELATIVE EMITTANCE (%RE)

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

GRO	670
DRO	580
ORO	27
Total	1277

Units – mg/kg
See Sheet 19C2 for
Analytical Results

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

LORRAINE REFINERY
Sheet 19C1

014815

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

Loc	Analyte	Result	Q	Action Limit	AC
LOR-18 6 to 8 Ft bgs	Bromodichloromethane	300	U	290	1E6
	1,2-Dibromoethane	300	U	36	1E6
	Isopropylbenzene	2700		1900000	HI=1
	1,2-Dibromo-3-chloropropane	300	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7700	U*	4900	1E6
	Hexachloroethane	4000	U*	1800	1E6
	Naphthalene	960	*	130000	HI=1
	Naphthalene	740		130000	HI=1
	4-Chloroaniline	7700	U*	2700	1E6
	Hexachlorobutadiene	4000	U*	1200	1E6
	2-Methylnaphthalene	1400	*	240000	HI=1
	2-Methylnaphthalene	740	*	240000	HI=1
	2-Methylnaphthalene	1100		240000	HI=1
	Hexachlorocyclo-pentadiene	7700	U	1800	HI=1
	2,6-Dinitrotoluene	4000	U*	360	1E6
	Dibenzofuran	220	*	73000	HI=1
	Dibenzofuran	250		73000	HI=1
	2,4-Dinitrotoluene	4000	U*	1700	1E6
	Fluorene	510	*	2400000	HI=1
	Fluorene	590	J	2400000	HI=1
	4-Chlorophenyl-phenyl ether	4000	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7700	U*	5100	HI=1
	Hexachlorobenzene	4000	U*	210	1E6
	Atrazine	7700	U*	2400	1E6
	Phenanthrene	1500	*	NP	HI=1
	Phenanthrene	880	*	NP	HI=1
	Phenanthrene	1900		NP	HI=1
	Fluoranthene	120	*	2400000	HI=1
	Fluoranthene	220		2400000	HI=1
	Pyrene	270	*	1800000	HI=1
	Pyrene	350		1800000	HI=1
	3,3'-Dichlorobenzidine	7700	U*	1200	1E6
	Benzo(a)anthracene	75	*	160	1E6
	Benzo(a)anthracene	4000	U*	160	1E6
	Benzo(a)anthracene	82		160	1E6
	Chrysene	230	*	15000	1E6
	Chrysene	220		15000	1E6
	Benzo(b)fluoranthene	80	*	160	1E6
	Benzo(b)fluoranthene	4000	U*	160	1E6
	Benzo(b)fluoranthene	79		160	1E6
	Benzo(k)fluoranthene	21	*	1600	1E6
	Benzo(k)fluoranthene	24	LJ	1600	1E6
	Benzo(k)fluoranthene	4000	U*	1600	1E6
	Benzo(a)pyrene	43	*	16	1E6
	Benzo(a)pyrene	4000	U*	16	1E6
	Benzo(a)pyrene	48		16	1E6
	Indeno(1,2,3-cd)pyrene	8.8	*	160	1E6
	Indeno(1,2,3-cd)pyrene	12	LJ	160	1E6
	Indeno(1,2,3-cd)pyrene	4000	U*	160	1E6
	Dibenzo(a,h)anthracene	8.6	*	16	1E6
	Dibenzo(a,h)anthracene	40	U	16	1E6
	Dibenzo(a,h)anthracene	4000	U*	16	1E6
	Benzo(g,h,i)perylene	19	*	NP	HI=1
	Benzo(g,h,i)perylene	30	LJ	NP	HI=1

Units - µg/kg

Loc	Analyte	Result	Q	Action Limit	AC
LOR-12 11 to 14 Ft bgs	Chloroform	410	U	320	1E6
	Cyclohexane	1300		6500000	HI=1
	Methylcyclohexane	11000		NP	HI=1
	Bromodichloromethane	410	U	290	1E6
	1,2-Dibromoethane	410	U	36	1E6
	m, p-Xylene	410	U	NP	HI=1
	Isopropylbenzene	1200		1900000	HI=1
	1,2-Dibromo-3-chloropropane	410	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7500	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	Naphthalene	900		130000	HI=1
	4-Chloroaniline	7500	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	5200	*	240000	HI=1
	2-Methylnaphthalene	2600	*	240000	HI=1
	Hexachlorocyclo-pentadiene	7500	U	1800	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	Dibenzofuran	210		73000	HI=1
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	170		2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7500	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7500	U*	2400	1E6
	Phenanthrene	210		NP	HI=1
	Anthracene	40		18000000	HI=1
	Pyrene	19	LJ	1800000	HI=1
	3,3'-Dichlorobenzidine	7500	U*	1200	1E6
	Benzo(a)anthracene	3900	U*	160	1E6
	Benzo(b)fluoranthene	3900	U*	160	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	3900	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6

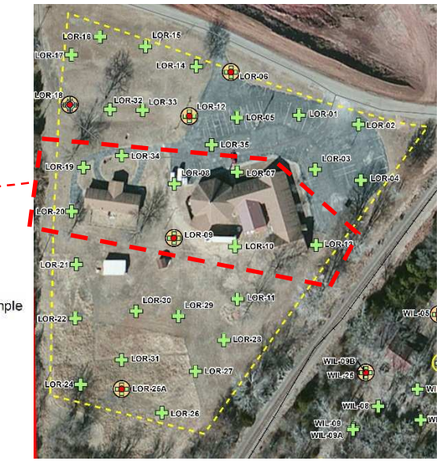
Units - µg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

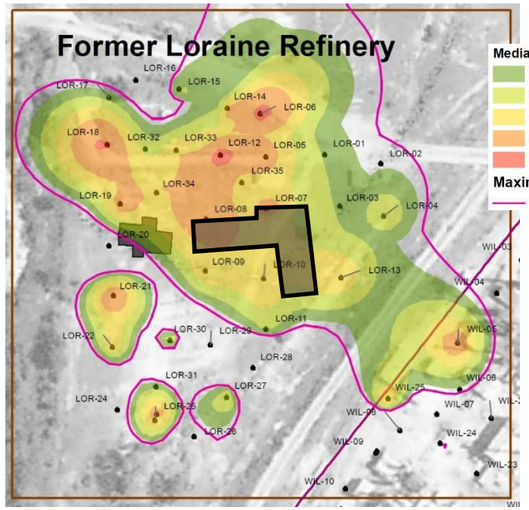
LORRAINE REFINERY
Sheet 19C2

This Sheet

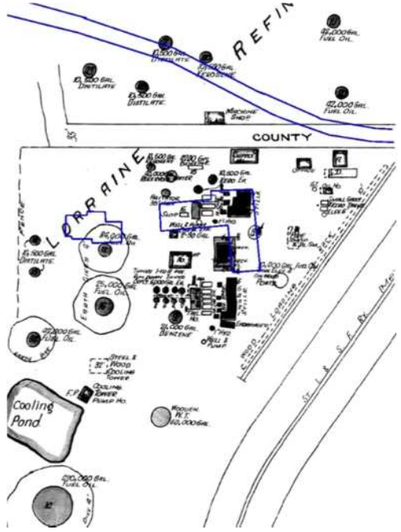
- Geoprobe
- Groundwater Sample
- Rost
- Soil Sample
- Test Pit
- Tank Center



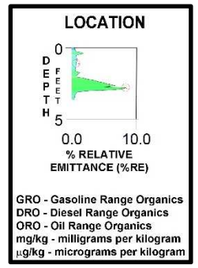
SAMPLE LOCATIONS



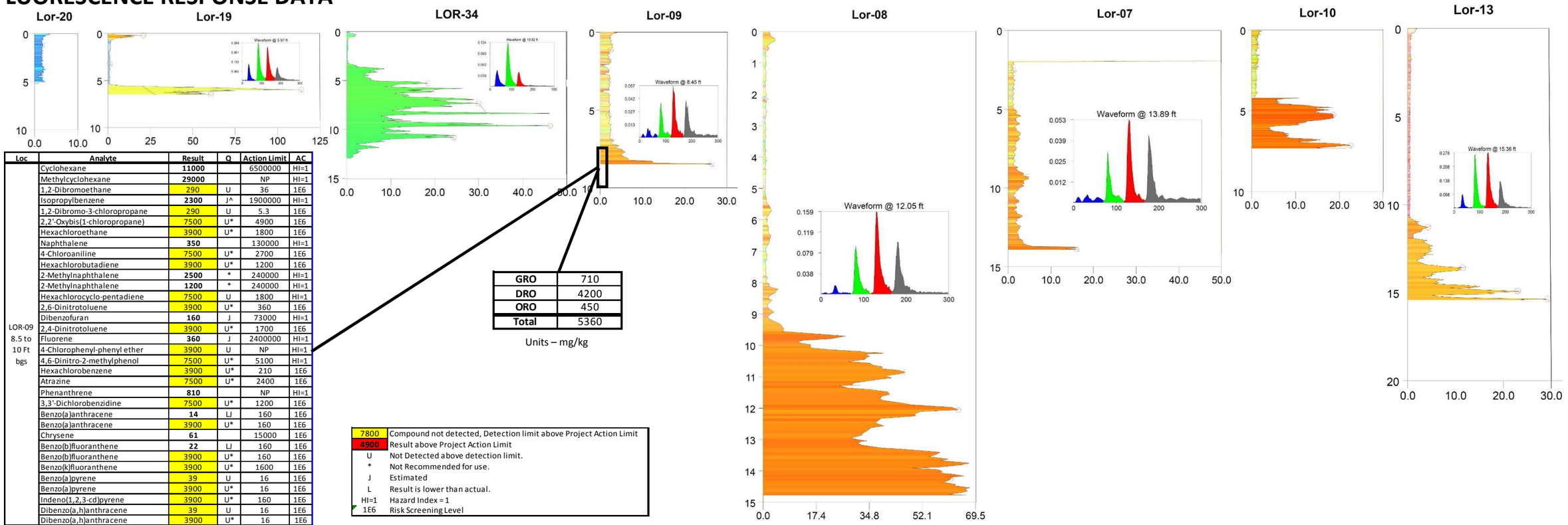
2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH



1923 SANBORN MAP



FLUORESCENCE RESPONSE DATA



Loc	Analyte	Result	Q	Action Limit	AC
LOR-09 8.5 to 10 Ft bgs	Cyclohexane	**11000**		6500000	HI=1
	Methylcyclohexane	**29000**		NP	HI=1
	1,2-Dibromoethane	290	U	36	1E6
	Isopropylbenzene	**2300**	J^	1900000	HI=1
	1,2-Dibromo-3-chloropropane	290	U	5.3	1E6
	2,2'-Oxybis(1-chloropropane)	7500	U*	4900	1E6
	Hexachloroethane	3900	U*	1800	1E6
	Naphthalene	**350**		130000	HI=1
	4-Chloroaniline	7500	U*	2700	1E6
	Hexachlorobutadiene	3900	U*	1200	1E6
	2-Methylnaphthalene	**2500**	*	240000	HI=1
	2-Methylnaphthalene	**1200**	*	240000	HI=1
	Hexachlorocyclo-pentadiene	7500	U	1800	HI=1
	2,6-Dinitrotoluene	3900	U*	360	1E6
	Dibenzofuran	**160**	J	73000	HI=1
	2,4-Dinitrotoluene	3900	U*	1700	1E6
	Fluorene	**360**	J	2400000	HI=1
	4-Chlorophenyl-phenyl ether	3900	U	NP	HI=1
	4,6-Dinitro-2-methylphenol	7500	U*	5100	HI=1
	Hexachlorobenzene	3900	U*	210	1E6
	Atrazine	7500	U*	2400	1E6
	Phenanthrene	**810**		NP	HI=1
	3,3'-Dichlorobenzidine	7500	U*	1200	1E6
	Benzo(a)anthracene	**14**	LJ	160	1E6
	Benzo(a)anthracene	3900	U*	160	1E6
	Chrysene	**61**		15000	1E6
	Benzo(b)fluoranthene	**22**	LJ	160	1E6
	Benzo(b)fluoranthene	3900	U*	160	1E6
	Benzo(k)fluoranthene	3900	U*	1600	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	3900	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	3900	U*	160	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	3900	U*	16	1E6

Units – µg/kg

GRO	710
DRO	4200
ORO	450
Total	5360

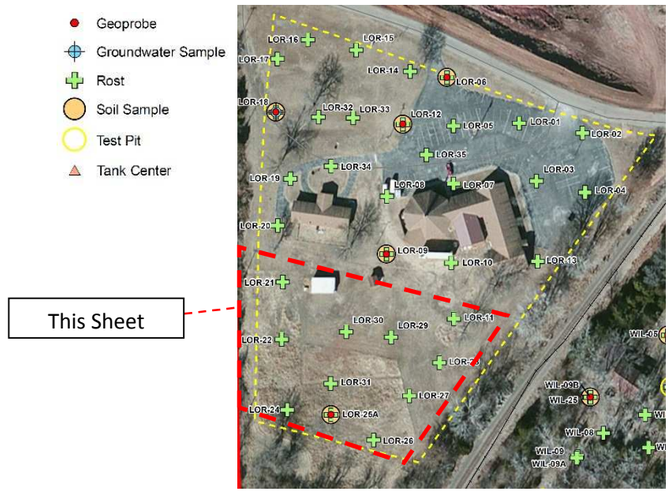
Units – mg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level

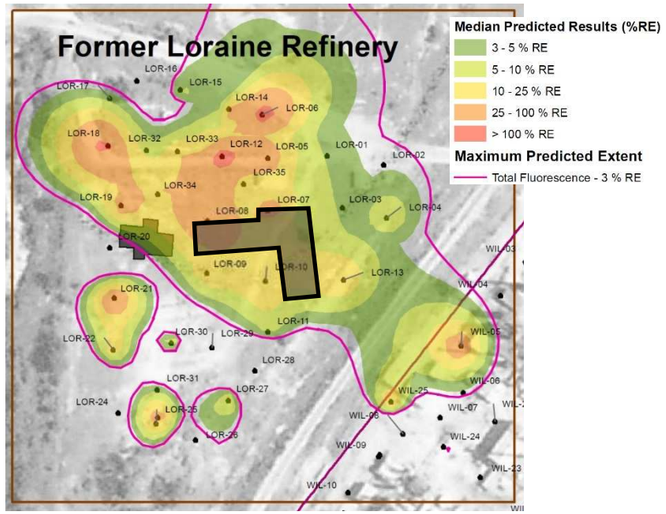
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

LORRAINE REFINERY
Sheet 19D

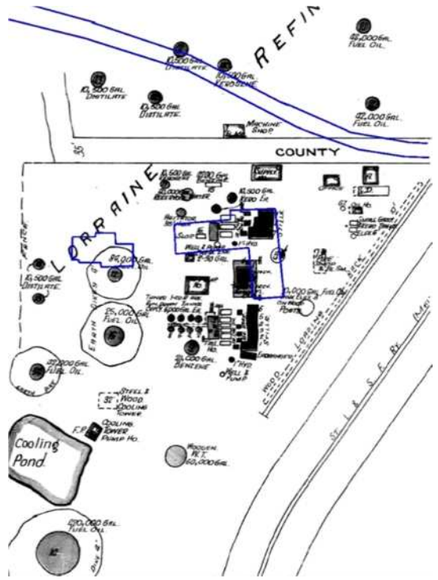
014817



SAMPLE LOCATIONS

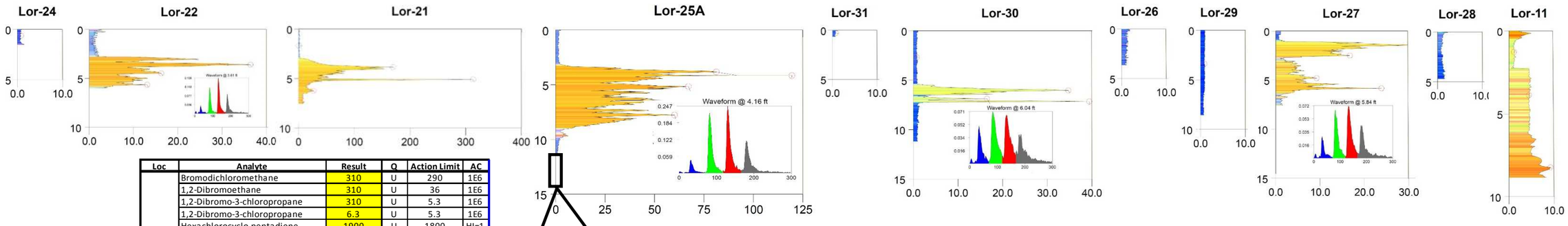


2D MAX FLUORESCENCE ON
1956 AERIAL PHOTOGRAPH



1923 SANBORN MAP

FLUORESCENCE RESPONSE DATA



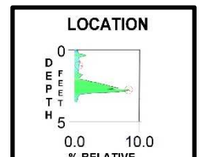
Loc	Analyte	Result	Q	Action Limit	AC
LOR-25A 12 to 14 Ft bgs	Bromodichloromethane	310	U	290	1E6
	1,2-Dibromoethane	310	U	36	1E6
	1,2-Dibromo-3-chloropropane	310	U	5.3	1E6
	1,2-Dibromo-3-chloropropane	6.3	U	5.3	1E6
	Hexachlorocyclo-pentadiene	1900	U	1800	HI=1
	2,6-Dinitrotoluene	990	U*	360	1E6
	Hexachlorobenzene	990	U*	210	1E6
	3,3'-Dichlorobenzidine	1900	U*	1200	1E6
	Benzo(a)anthracene	990	U*	160	1E6
	Benzo(a)anthracene	200	U*	160	1E6
	Benzo(b)fluoranthene	990	U*	160	1E6
	Benzo(b)fluoranthene	200	U*	160	1E6
	Benzo(a)pyrene	40	U	16	1E6
	Benzo(a)pyrene	39	U	16	1E6
	Benzo(a)pyrene	990	U*	16	1E6
	Benzo(a)pyrene	200	U*	16	1E6
	Indeno(1,2,3-cd)pyrene	990	U*	160	1E6
	Indeno(1,2,3-cd)pyrene	200	U*	160	1E6
	Dibenzo(a,h)anthracene	40	U	16	1E6
	Dibenzo(a,h)anthracene	39	U	16	1E6
	Dibenzo(a,h)anthracene	990	U*	16	1E6
	Dibenzo(a,h)anthracene	200	U*	16	1E6

Units – µg/kg

GRO	86
DRO	430
ORO	28
Total	544

Units – mg/kg

7800	Compound not detected, Detection limit above Project Action Limit
4900	Result above Project Action Limit
U	Not Detected above detection limit.
*	Not Recommended for use.
J	Estimated
L	Result is lower than actual.
HI=1	Hazard Index = 1
1E6	Risk Screening Level



GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

LORRAINE REFINERY

Sheet 19E

014818

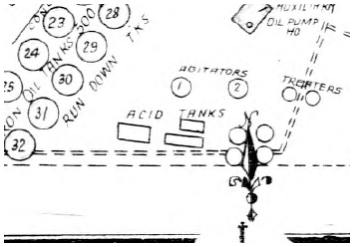
WILCOX GAS SWEETENING AREA

Sheet 20

Location

Location Description

- South-central portion of the Wilcox property. Area is just north of Tank 34.
- 1961 Sanborn Map (See Sheet 20)
  - Process Area including:
    - Acid Tanks
    - Agitators
    - Treaters
    - Nearby Run Down Tanks
    - Condensate Tanks
- 2012 Google Earth Image
  - Area is denuded.
  - Highly visible



1961 Sanborn Map

2012 Google Earth Image

Observations

- Observations
  - Area is very sandy with minimal plant growth.
  - Some areas of sparkling sands/salts were noted.
  - Significant surface erosion from this area to the south.
  - Area was investigated with a Niton field XRF for metals, particularly Pb. Initially it was believed that this was a fuel additives area for additives such as TEL, but further research and sample analyses indicate that the tract was more likely a doctor sweetening process area.

Sweetening Area Site Photograph

- Boring Logs (From Section 6 – Lower Process Area)
  - WIL-AA-10 (Sheet 6A)
    - 0-9 ft bgs stiff dry low plasticity red clay
    - 9-10 ft bgs fine sand and silt, weathered sandstone fragments.
    - Highest PID readings between 8 and 9 ft, 24 ppm
    - Entire core had strong phenolic odor.
    - Sample Results indicate high levels of phenolic compounds (See Sheet 6B).
  - WIL-AA-11 (Sheet 6A)
    - 0-10 ft bgs stiff dry fine gray-brown silt.
    - 10-13 ft bgs medium stiff dry red sandy silt
    - 13-20 ft bgs stiff dry red to gray medium to high plasticity clay.
    - Entire core had strong phenolic odor.
    - Highest PID reading between 10 and 12 feet, 5 ppm.

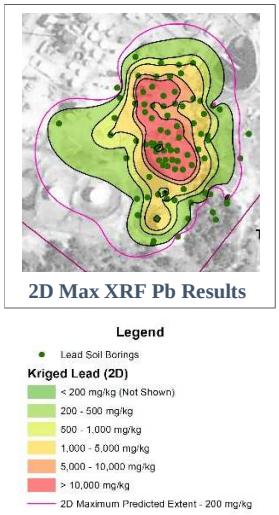
WIL-AA_10
9-10 ft bgs

- Sample Results indicate high levels of phenolic compounds (Sheet 6B).
- Sample seems to be a mix of gasoline possibly with crude or other products.

Topography

- Surface drainage is toward the south towards Sand Creek.

Environmental Impacts/Conclusions



2D Max XRF Pb Results

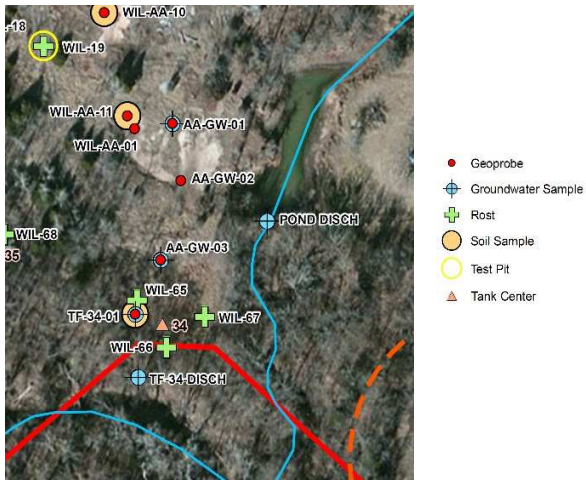
- High levels of phenols in conjunction with high levels of Pb in the surface soils in this area indicate that chemicals from the sweetening process have impacted the subsurface.
- It appears that some form of the doctor sweetening process was used in this area to remove mercaptans and other sulfur compounds from the refined gasoline. Gasoline is reacted with sodium plumbite (Na_2PbO_2) in the presence of sodium hydroxide (NaOH) and the addition of additional sulfur via elemental sulfur or sulfonic acid to produce lead sulfide precipitate. This precipitate can be filtered or settled from the gasoline. The subsurface soils were found to contain Phenolic compounds, which are soluble in NaOH and would also have been removed from the feed stock material.
- Shiny crystals can be seen on the surface in this area. When tested with the Niton field portable XRF, these crystals tested very high for Pb content (above the calibration range, but indicating percent levels of Pb).
- Surface soils were tested extensively using the Niton XRF. The results are shown on the 2-D Max XRF Results figure (Sheet 20).
- Pb vertical contamination was investigated at five locations (See sheet 20). In general Pb appears to attenuate quickly with depth, but a more comprehensive vertical delineation is needed throughout this area.
- This area is likely impacting Sand Creek due to high Pb concentrations at the surface throughout this area and visible surface erosion toward Sand Creek to the south and the tributary to Sand Creek to the east.
- High concentrations of total and dissolved Pb were found in the perched water samples from the temporary well points. See Table 20-1 and the sample location map.

Analyte	Risk Based Screening Level	MCL	TF-34-DISCH				AA-GW-03				TF-34-01				LOR-18				POND-DISCH			
			Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved		Total		Dissolved	
			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	20000		3200	J	29.6		NA		1270		46100	J	4430		71600	J	20	U	1740	J	215	
Antimony	7.8	6	1	U	1	U	NA		13.3		1	U	1.3		1	U	1	U	1	U	1	U
Arsenic	0.05	10	2.5		1.1		NA		707		32.9		8.3		24.3		9.9		1.3		0.78	
Beryllium	25	4	1	U	1	U	NA		13.9		5.1	J	0.31	UJ	5.8	J	1	U	1	U	1	U
Chromium	22000	100	2.3		0.49	UJ	NA		752		99.8		9.1		148		0.33	UJ	2.6		0.77	UJ
Cobalt	6		3.8		3.6		NA		69.8	J	24	J	6		16.2	J	1.4		0.5	U	0.34	UJ
Iron	14000		7230		1400		NA		16700	J	35400	J	6490		29100	J	36800		1700		304	
Lead	15	15	495		106		NA		752	J	151000		3860		471	J	1	U	61.8		11.1	
Manganese	430		827		894		NA		1370		6950		1470		2470		1660		59		36	
Nickel	390		4.6		4.1		NA		919	J	31.8	J	9.4		15.7	J	1	U	3.3		2.8	
Selenium	100	50	2.5	U	2.5	U	NA		58.5		4		0.55	UJ	3.4		2.5	U	2.5	U	2.5	U
Thallium	0.2	2	0.5	U	0.5	U	NA		2	UJ	0.5	UJ	0.5	U	0.5	UJ	0.5	U	0.5	U	0.5	U
Vanadium	86		4.6	UJ	0.38	UJ	NA		4170		133		12.9		209		5	U	2.8	UJ	0.35	UJ

All Results are given in micrograms/Liter (µg/L)
Greater than Screening Level
Greater than MCL
Greater than both MCL and Screening Level

Q - Lab Results Qualifier
J - Estimated
U - Not Detected above the Minimum Detection Limit

Table 20-1. Metals Groundwater Results



Water Sample Locations/ Sweetening Area

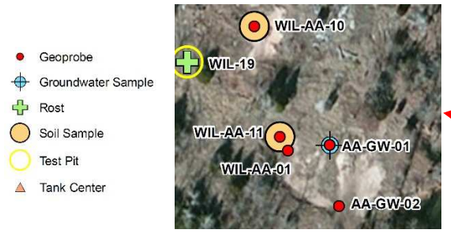
Data Gaps

- Although some investigation of the subsurface was performed using the Niton XRF, the full vertical and horizontal subsurface delineation of the Pb was not completed.

Recommendations

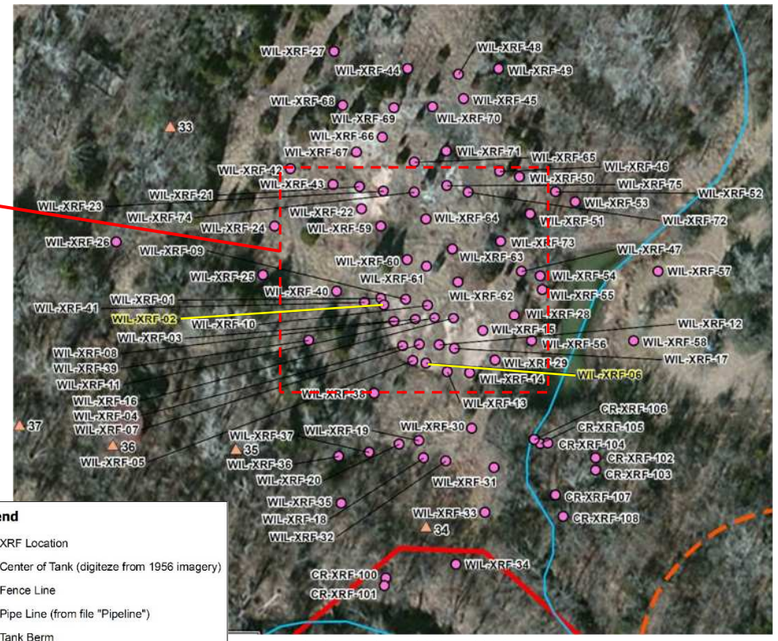
- Due to extensive high lead concentrations in this area, and visible signs of offsite migration, a removal action should be considered for this area.
- Engineering controls and worker health and safety measures should be implemented prior to performing additional work in this area.
- Erosion controls should be put in place to eliminate continuing surface migration toward Sand Creek.
- Further investigation is required to determine the vertical extent of the Pb contamination.
- The above recommendations should be implemented prior to the investigation of Sand Creek.

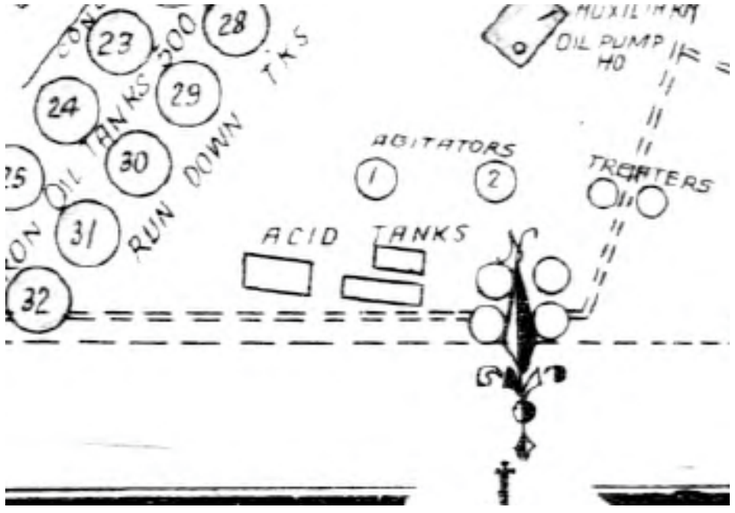
This Sheet



SAMPLE LOCATIONS

See tables below for XRF versus Depth where available.





1961 SANBORN MAP

2-D MAX

XRF RESULTS

Legend

- Lead Soil Borings

Kriged Lead (2D)

- < 200 mg/kg (Not Shown)
- 200 - 500 mg/kg
- 500 - 1,000 mg/kg
- 1,000 - 5,000 mg/kg
- 5,000 - 10,000 mg/kg
- > 10,000 mg/kg
- 2D Maximum Predicted Extent - 200 mg/kg

Legend

- XRF Location
- Center of Tank (digiteze from 1956 imagery)
- Fence Line
- Pipe Line (from file "Pipeline")
- Tank Berm
- Site Outline

XRF SAMPLE LOCATIONS

See tables below for XRF versus Depth where available.

XRF LEAD SCREENING RESULTS

Location	Depth (feet)	Result (ppm)
WIL-XRF-02	0	435877.9
	0.03	40567.49
	0.17	397565.3
	0.5	41243.05
	1	5785.1

Red - Over Project Action Limit
ppm - Parts per million

XRF LEAD SCREENING RESULTS

Location	Depth (feet)	Result (ppm)
WIL-XRF-06	0	31641.87
	0.03	2355.77
	0.17	78.26

Red - Over Project Action Limit
ppm - Parts per million

XRF LEAD SCREENING RESULTS

Location	Depth (feet)	Result (ppm)
WIL-AA-11	0.08	1139782
	0.5	39835.2
	1	5513.22
	1.5	63.59
	2	39.61
	7.5	183.66
	12	29.78

Red - Over Project Action Limit
ppm - Parts per million

XRF LEAD SCREENING RESULTS

Location	Depth (feet)	Result (ppm)
WIL-AA-10	0.08	100223.2
	0.5	86491.11
	1	107908.4
	1.5	379.24
	2	929.09
	3	1073.1
	4	609.6
	8	25.05

Red - Over Project Action Limit
ppm - Parts per million

XRF LEAD SCREENING RESULTS

Location	Depth (feet)	Result (ppm)
WIL-AA-01	0.5	543.58
	1.5	57.58
	3.5	46.58
	7	27.58
	8.5	16.94
	11.5	9.81
	13	14.75

Red - Over Project Action Limit
ppm - Parts per million

XRF VERSUS DEPTH RESULTS

Cautionary Note: All XRF contaminant results in this figure should be used with caution. XRF readings should be used as order of magnitude assessments of contamination levels. Significant contamination was found outside of the calibration ranges of the XRF. Other factors including As/Pb interferences, water absorption, and nugget effects may have affected the final XRF values.

U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. #0-277

WILCOX REFINERY
SWEETENING AREA

Sheet 20

S_2C_2 inc.

Streamlined Site Characterization & Closure

Data Analysis and Data Visualization for the Wilcox Refinery Superfund Site, Bristow, Oklahoma

February 18, 2016

PREPARED FOR

Lockheed Martin/SERAS Contract
2890 Woodbridge Avenue
Edison, NJ

PREPARED BY

S_2C_2, Inc.
5 Johnson Drive, Suite 12
Raritan, New Jersey 08869
(908) 253-3200
www.s2c2inc.com

TABLE OF CONTENTS

Introduction ……..... 1

Description of Data and Data Processing……... 1

Geologic Interpretation and Grid Development……..…… 2

Direct Sensing Data and Analytical Kriging ……..…… 2

Three-Dimensional Conceptual Site Model ……..…… 3

Quality Assurance and Quality Control (QA/QC) ……. 4

List of Figures

Figure 1: Wilcox Site Map
Figure 2: XRF Wilcox Site Map
Figure 3: Site Wide Grid
Figure 4: Loraine Grid
Figure 5: Wilcox Grid
Figure 6: TF-03 Grid
Figure 7: TF-05 Grid
Figure 8: TF-10 Grid
Figure 9: TF-11&12 Grid
Figure 10: Overburden Thickness Isopach Map
Figure 11: 2D Maximum Total Fluorescence - Site Wide
Figure 12: 3D Total Fluorescence – Loraine Grid
Figure 13: 3D Total Fluorescence – Wilcox Grid
Figure 14: 3D Total Fluorescence – TF-03 Grid
Figure 15: 3D Total Fluorescence – TF-05 Grid
Figure 16: 3D Total Fluorescence – TF-10 Grid
Figure 17: 3D Total Fluorescence – TF-11&12 Grid
Figure 18: 2D Maximum Lead in Soil – Wilcox

Attachments

Attachment 1: Summary of Data File Statistics
Attachment 2: Final Data Files
Attachment 3: Summary of Kriging Statistics and Settings

Introduction

Lockheed Martin Corporation (LM) on behalf of the Environmental Protection Agency's (EPA) Emergency Response Team (ERT) contracted S_2C_2, Inc. (S_2C_2) to provide data analysis and data visualization services for data collected as part of a High Resolution Site Characterization (HRSC) field program conducted at the Wilcox Superfund Site in Bristow, Oklahoma (Site). This investigation involved delineating the vertical and horizontal extent of petroleum hydrocarbons in the subsurface using a Rapid Optical Screening Tool (ROST) advanced using a Cone Penetrometer (CPT) Rig, as well as the collection of soil samples for analysis of lead by a handheld X-Ray Fluorescence (XRF) unit and by fixed laboratory atomic absorption (AA) instrument. Data associated with this investigation were provided to S2C2 via electronic deliverables. All data were processed using a combination of software applications including ESRI's ArcGIS (GIS) and Ctech's Earth Volumetric Studio (Studio). The objective of this data analysis and data visualization was to develop an initial Conceptual Site Model (CSM) for the Site to assist in the evaluation of future investigations.

Description of Data and Data Processing

All data were provided as electronic deliverables processed from EPA's Scribe database or from existing project data files and include the following:

- ROST logs
- ROST Studio formatted apdv data files exported from EPA's Scribe Database
- Lead soil results from XRF and AA methodologies exported from Scribe and formatted in Studio apdv file format
- Interpreted geophysical contacts in Studio apdv file format
- Geoprobe soil boring refusal depths in Studio apdv file format
- Ground Penetrating Radar (GPR) bedrock elevation in Studio apdv file format.
- PID soil boring readings in Studio apdv file format
- Aerial photographs – 1955,1956, 1971 and recent in raster format
- San Born Fire Insurance Maps

Data were provided in North American Datum 1983 (NAD83) – Oklahoma State Plane North coordinate system. Elevation data were provided based on GPS elevation data for each soil boring. Historic San Born Fire Insurance Maps were rectified in ArcGIS using interpreted coincident features. In addition to the spatial corrections described above, direct-sensing data were processed using Ctech's Data Reduction Tool. Due to the high density nature of direct-sensing data in the *z*-axis (20 recorded values for every 1 ft of depth) as compared to the density on *x*- and *y*- axes, 3D kriging of data oversampled in the z-direction may produce unacceptable artifacts and require very high computing resources during kriging. To reduce the occurrence of these artifacts, the Data Reduction Tool is able assist in selecting the most critical data points (i.e. the max/min points) and preserve them while omitting the less critical data points by using a number of reduction options. The purpose of this data reduction is to reduce the number of data to less than 6,500 data

points so that all data can be used during kriging. In addition to targeting a final data set with no more than 6,500 data points, data density for reduced data sets is set such that it is approximately equal to the vertical grid resolution. This reduces vertical averaging of data points during the kriging routine. Since individual areas were also kriged separately from the entire site, data were also reduced spatially in order to increase data density of the individual areas. A summary of data file statistics for all visualized data sets is provided in Attachment 1 and a copy of final data files are provided in Attachment 2.

Geologic Interpretation and Grid Development

Geologic interpretation and surface kriging was completed based on a simple geologic model that consisted of two surfaces: topography and CPT refusal. The topography data set was created by using surface elevation data from ROST and soil borings and then adding in the surface elations from the GPR data sets. These data were compared in 3D to remove anomalous data. The final data set is provided in Attachment 1 with notes. Surfaces for Geoprobe refusal and interpreted bedrock elevation were also evaluated, but are not presented since the correlation to the CPT refusal surface was poor. It should be noted that the maximum depth for each boring was used as CPT refusal in some instances actual refusal depth could be greater than reported based on the actual probe configuration.

Based on the very large horizontal distribution of the entire data set (greater than 3500 ft east to west) and the relatively shallow refusal depths, multiple grids were created for the Site to better illustrate data for individual areas. The following grids were created and are illustrated on Figures 1 and 2:

- Site Wide – used for ROST data only
- Former Loraine Refinery – ROST data only
- Former Wilcox Refinery – used for both ROST and XRF data
- Tank Farm 3 - ROST data only
- Tank Farm 5 - ROST data only
- Tank Farm 6 - ROST data only
- Tank Farm 10 - ROST data only
- Tank Farms 11 & 12 - ROST data only

Rectilinear or finite difference grids were created for each area with grid spacing that is based on data density. Figures 3 through 9 present details for each grid.

Direct Sensing Data and Analytical Kriging

Once the geologic model and individual grids were finalized and direct-sensing data were reduced, ROST total fluorescence data were kriged using Ctech's Studio 3Dkriging module within the geologic grids described above. Kriging settings were set individually for each data set based on individual data properties. Additional data reduction was completed for individual grids by subsetting the original data set spatially. This was completed in GIS. The original ROST data set was imported into GIS and then subsetted based on the

individual grids. The spatially selected borings were then exported from GIS and formatted as apdv files. Based on the size of these new data files data reduction was completed on the data files as described above. Grid node values were calculated in Studio utilizing an ordinary kriging algorithm using all data points with a spherical semivariogram and zero nugget. A summary of data statistics and kriging parameters are provided in Attachment 3.

In order to evaluate variability in predicted values from the kriging results, analytical data sets were kriged using Ctech's min/max kriging option with a confidence level of 80% and a confidence bound factor of 10. This option reports the minimum, median, and maximum predicted value of possible calculated values that have a calculated confidence of 80% within the confidence bound factor (i.e. the minimum, median, and maximum predicted value that has a calculated confidence that is within one order of magnitude of the actual value). The results of this analysis can show variability of predicted values and are particularly useful for chemical data sets.

In addition to the 3D kriging described above, 2-dimensional (2D) kriging was conducted on the site wide ROST – total fluorescence and lead data sets in order to create 2D maximum outputs total fluorescence and lead. For ROST data, the 3D kriging data set was used to krig in 2D. Please note that there is actually no interpolation completed in these calculations and as such there are no exported statistics (i.e. confidence is always 100%). The 3D data sets are collapsed by the maximum value and then kriged in 2D. Since the nodes of the collapsed 3D data set match the 2D grid, the predicted value is simply the maximum value of the 3D data. For XRF data, 2D kriging was completed on the maximum lead value at each individual boring within the Wilcox grid. Min-max kriging was utilized for kriging the lead data as discussed above. Lead soil data were not kriged in 3D since there was very limited vertical data.

In addition to evaluating the 2D and 3D distribution of data, ROST fluorescence color data were evaluated. During ROST data acquisition, the fluorescence signal is processed using a spectroscope which evaluate the wavelengths of the returned fluorescence. This can be used to evaluate different hydrocarbon product types (see Fugro's ROST report). For this data set Lockheed Martin calculated the Red, Green, and Blue (RGB) channel values from the ROST Cyan, Magenta, Yellow, and key (CYMK) values. The RGB data set was imported into Studio where the data file was processed to symbolize lines based on the RGB data set. The final file was then extruded based on the Fluorescence signal so that both the total fluorescence and color data are displayed.

Final 3-Dimensional Conceptual Site Model

In order to illustrate the final 3D-CSM, six Studio 4-D Interactive Model Player (4DIM) files were created and are available electronically. Viewing the 4DIM visualization files requires C Tech Corporation's Standalone 4D Interactive Model Player freeware and is available at http://client.ctech.com/ (see "Standalone 4DIM Player

Installation").

4Dim exports were created from the Studio results and include the following:

1. GeologicInterp_012016_5x.4d
2. Loraine_ROST_012016_5x.4d
3. WilcoxRost_012016_5x.4d
4. TF03_ROST_012016_5x.4d
5. TF05_ROST_012016_2x.4d
6. TF10_ROST_012016_5x.4d
7. TF11&12_ROST_012016_5x.4d
8. Wilcox_XRF_012016.4d

In addition, the following figures were created to present the results of the 2D/3D CSM:

Figure 10: Overburden Thickness Isopach Map
Figure 11: 2D Maximum Total Fluorescence - Site Wide
Figure 12: 3D Total Fluorescence – Loraine Grid
Figure 13: 3D Total Fluorescence – Wilcox Grid
Figure 14: 3D Total Fluorescence – TF-03 Grid
Figure 15: 3D Total Fluorescence – TF-05 Grid
Figure 16: 3D Total Fluorescence – TF-10 Grid
Figure 17: 3D Total Fluorescence – TF-11&12 Grid
Figure 18: 2D Maximum Lead in Soil – Wilcox

Quality Assurance and Quality Control (QA/QC)

This section provides a brief description of data usability and QA/QC procedures followed during data processing and data visualization. Quality control was applied throughout the data visualization process from data assimilation through data visualization. This included data export controls (Scribe database), evaluating data statistics, evaluating grid resolution, integrated team evaluation of geologic interpretation, and evaluating individual components of the visualization as well as collaborative data sets.

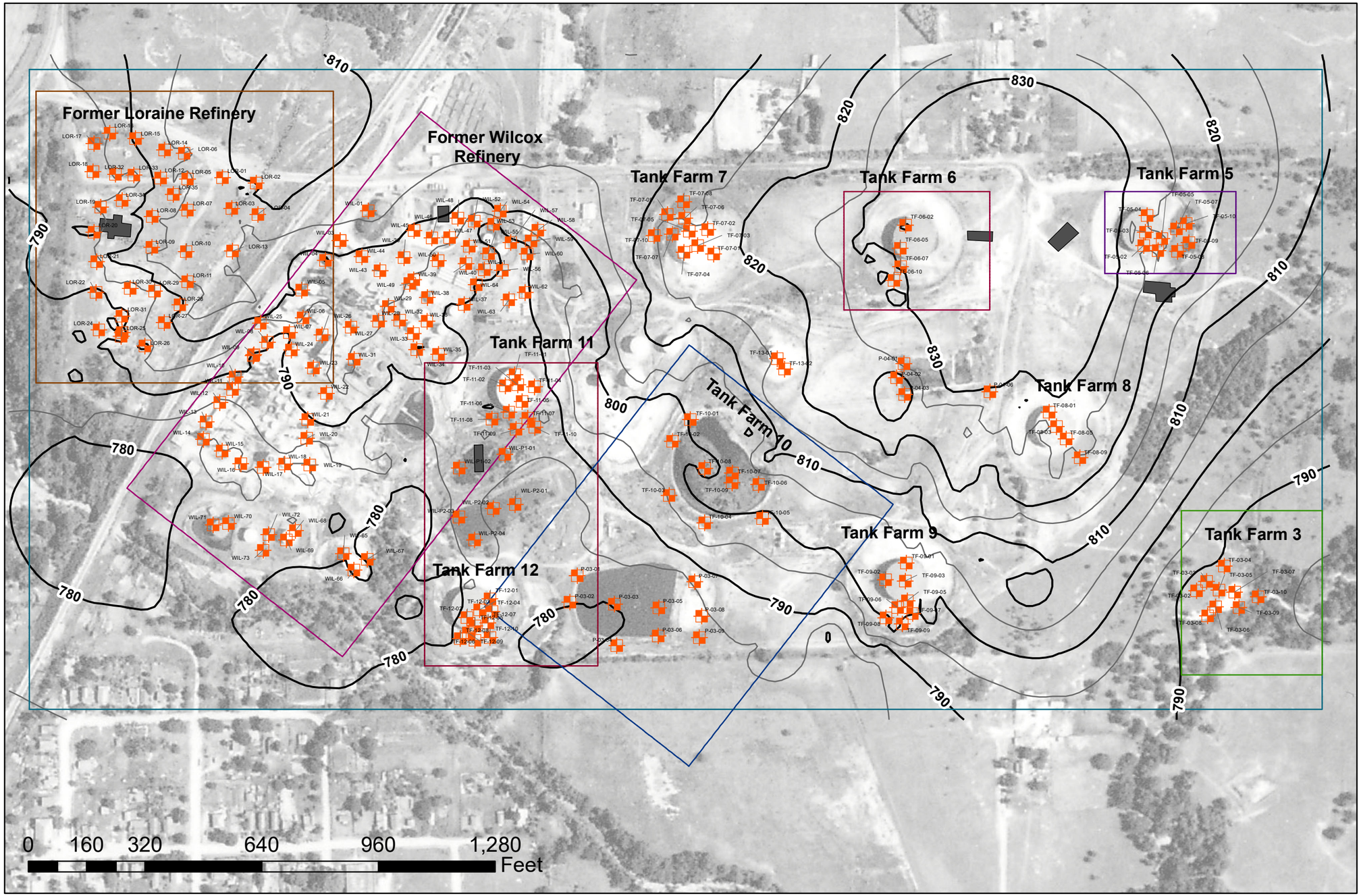
All direct-sensing data were loaded to the project specific EPA Scribe database by Lockheed Martin and then exported to Studio format using a custom electronic data deliverable (EDD) export. This data set was then processed through Ctech's data reduction tool. This process was implemented to limit any hand modifications to the direct-sensing data. Any modifications to the data sets are recorded as notes in the data files.

As discussed in the direct-sensing and analytical kriging section above, the direct sensing and analytical data sets were kriged individually within each geologic grid. Individual kriging parameters and data statistics are summarized in Attachments 1 and 3. Ctech's kriging algorithm provides statistical confidence for each predicted value calculated during

the kriging routine in addition min-max kriging was completed for the analytical data sets to evaluate minimum and maximum predicted values. For all data sets the confidence of the predicted values is high in the vicinity of the data. Predicted values away from the data will tend to approach the median value of the data and have a low confidence. This is especially evident in the direct-sensing kriging results due to the more limited aerial extent of the data.

Overall, the kriged data provide predicted values within the geologic grid that can be used to evaluate collaborative data sets in a visual 3-dimensional platform. As with any predictive tool, the statistical confidence of the results is a function of the data density. Based on the collaborative nature of the data evaluated for this Site, the final kriged data sets provide a useful tool for evaluating current site conditions and for targeting future investigations.

Figures



N
W
E
S

Legend

- ROST Borings

Grid Boundaries

- Wilcox Refinery Grid
- Loraine Refinery Grid
- Tank Farm 3 Grid
- Tank Farm 5 Grid
- Tank Farm 6 Grid
- Tank Farm 10 Grid
- Tank Farm 11 & 12 Grid
- Site Wide Grid

Topography Contours (Ft. AMSL)

- Major (10 ft interval)
- Minor (2 ft interval)
- Buildings

NOTES:

Aerial photograph was taken circa 1956 and was provided in State Plane coordinates. Topographic contours were created in MVS based on GPS elevations for Ground Penetrating Radar locations, ROST borings, and soil borings.

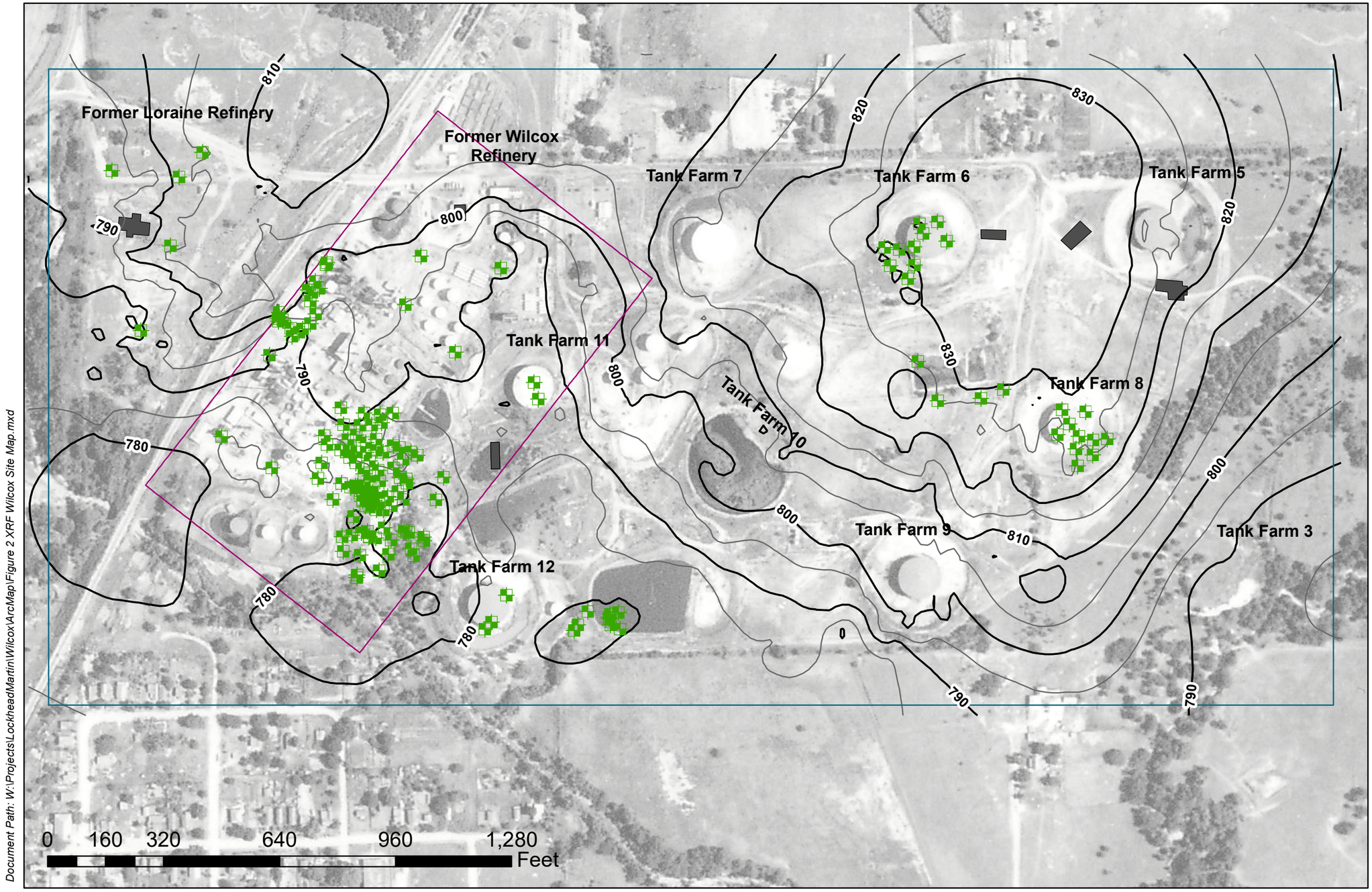
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 1 Wilcox Site Map.mxd

S_2C_2 inc.

014831

Figure 1
ROST Locations and MVS Grids

Wilcox Superfund Site
Bristow, Oklahoma



Legend

- Lead Soil Borings

Grid Boundaries

- Wilcox Refinery Grid
- Site Wide Grid

Topography Contours (Ft. AMSL)

- Major (10 ft interval)
- Minor (2 ft interval)
- Buildings

NOTES:

Aerial photograph was taken circa 1956 and was provided in State Plane coordinates. Topographic contours were created in MVS based on GPS elevations for Ground Penetrating Radar locations, ROST borings, and soil borings.

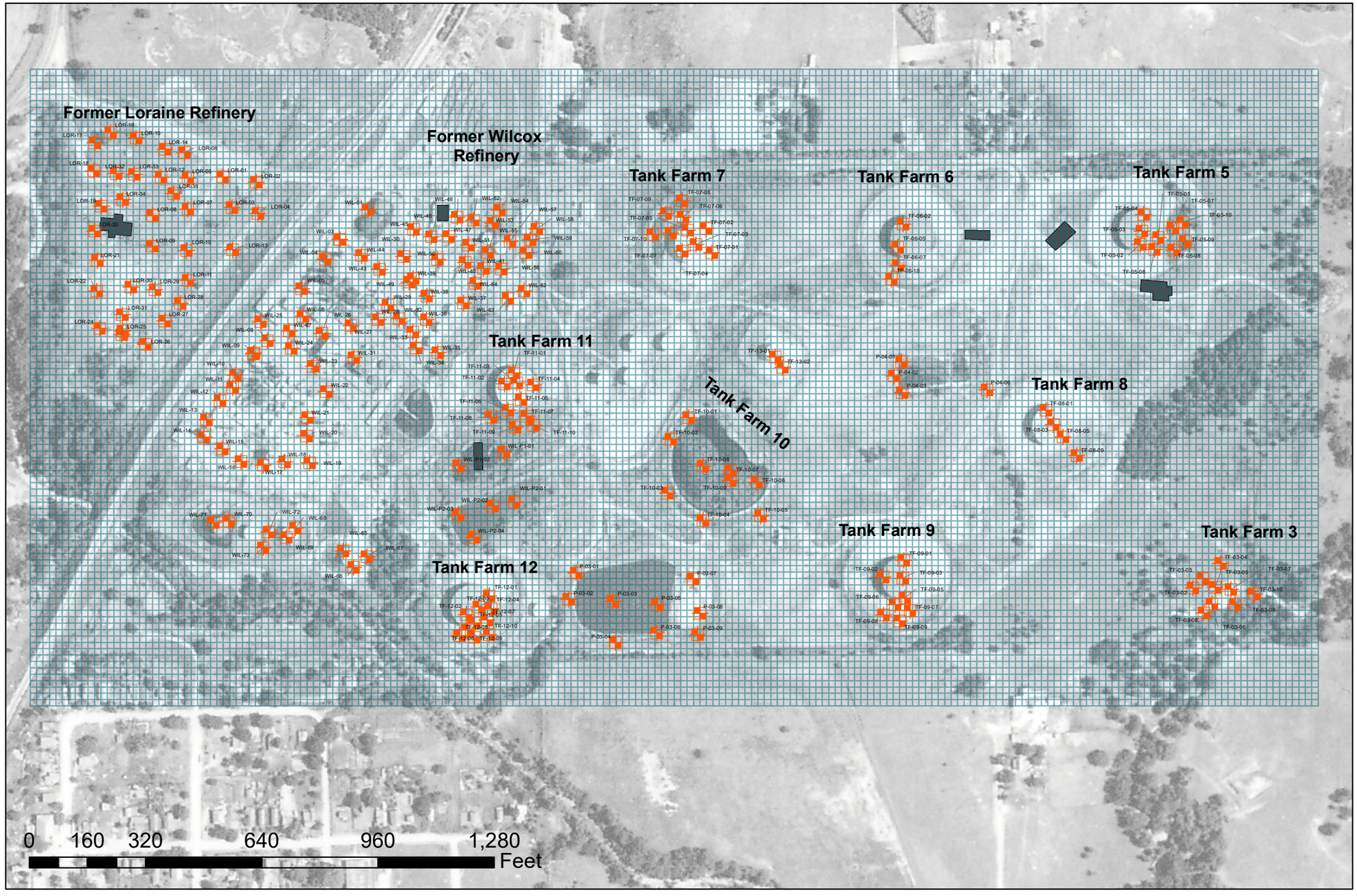
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 2 XRF Wilcox Site Map.mxd

Figure 2
Lead Soil Boring Locations and MVS Grids

Wilcox Superfund Site
Bristow, Oklahoma

S2C2 inc.

014832



Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 3 SiteWideGrid.mxd

Legend

- ROST Borings
- Site-Wide Grid
- Buildings

NOTES:

The SIte-Wide Grid is a rectilinear grid with an X Resolution of 201 and a Y resolution of 101. Cells are approximately 17 ft by 17 ft in width/length.

Figure 3
ROST Locations and Site-Wide Grid

Wilcox Superfund Site
Bristow, Oklahoma

S_2C_2 inc.

014833

Legend

- ROST Borings - kriged
- ROST Borings - not kriged
- Loraine Refinery Grid
- Buildings

NOTES:

The Lorained Grid is a rectilinear grid with an X resolution of 81 and Y resoution of 81. Cells are approximately 10 ft by 10 ft in width/length.

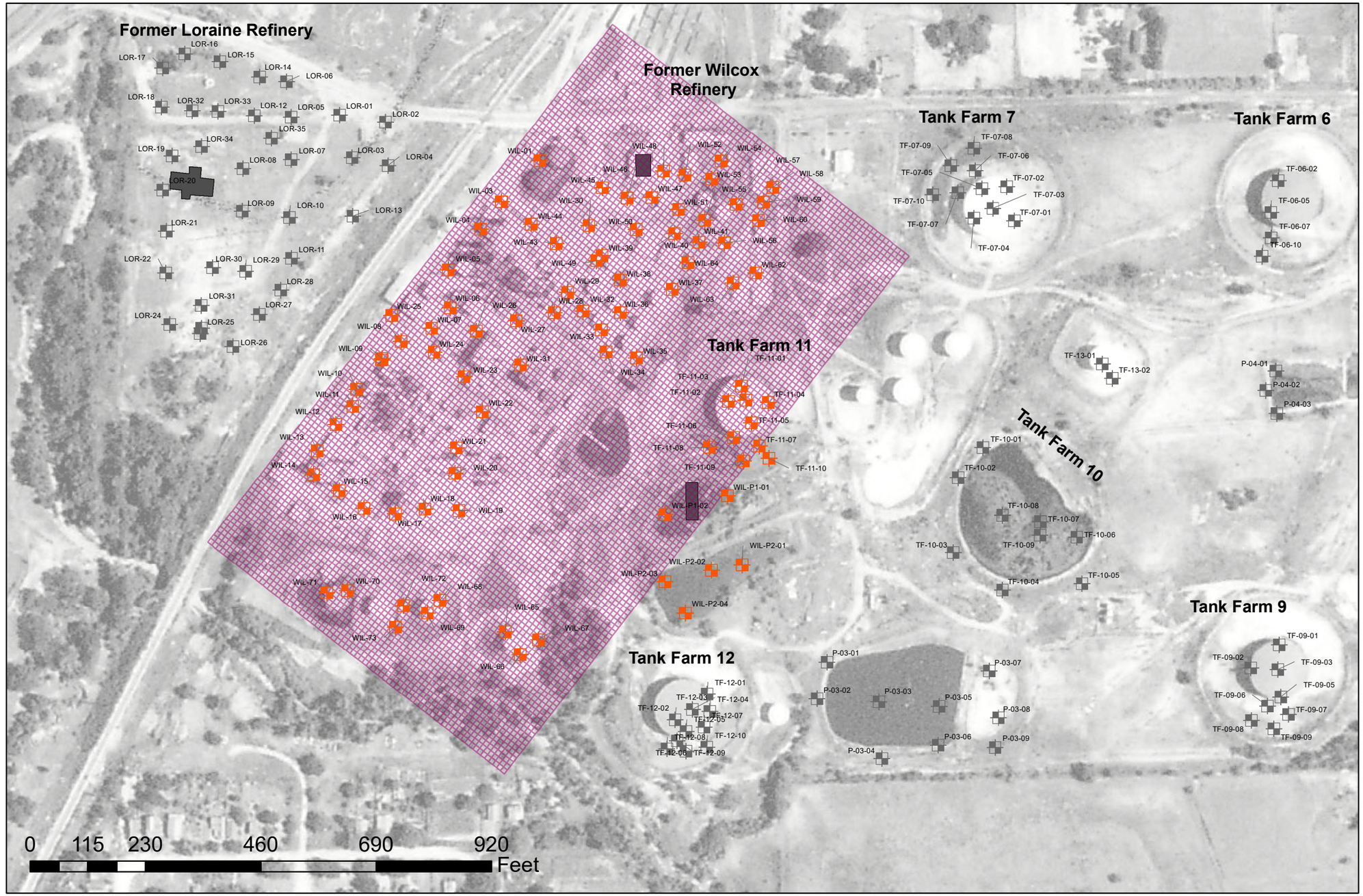
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 4 Loraine Grid.mxd

Figure 4
ROST Locations and Loraine Grid

Wilcox Superfund Site
Bristow, Oklahoma

S_2C_2 inc.

014834



Legend

- ROST Borings - Kriged
- ROST Borings - Not Kriged
- Wilcox Refinery Grid
- Buildings

NOTES:

The Wilcox Refinery Grid is a finite-difference grid rotated 52 degrees with an X Resolution of 132 and a Y resolution of 76. Cells are 10 ft by 10 ft in width/length.

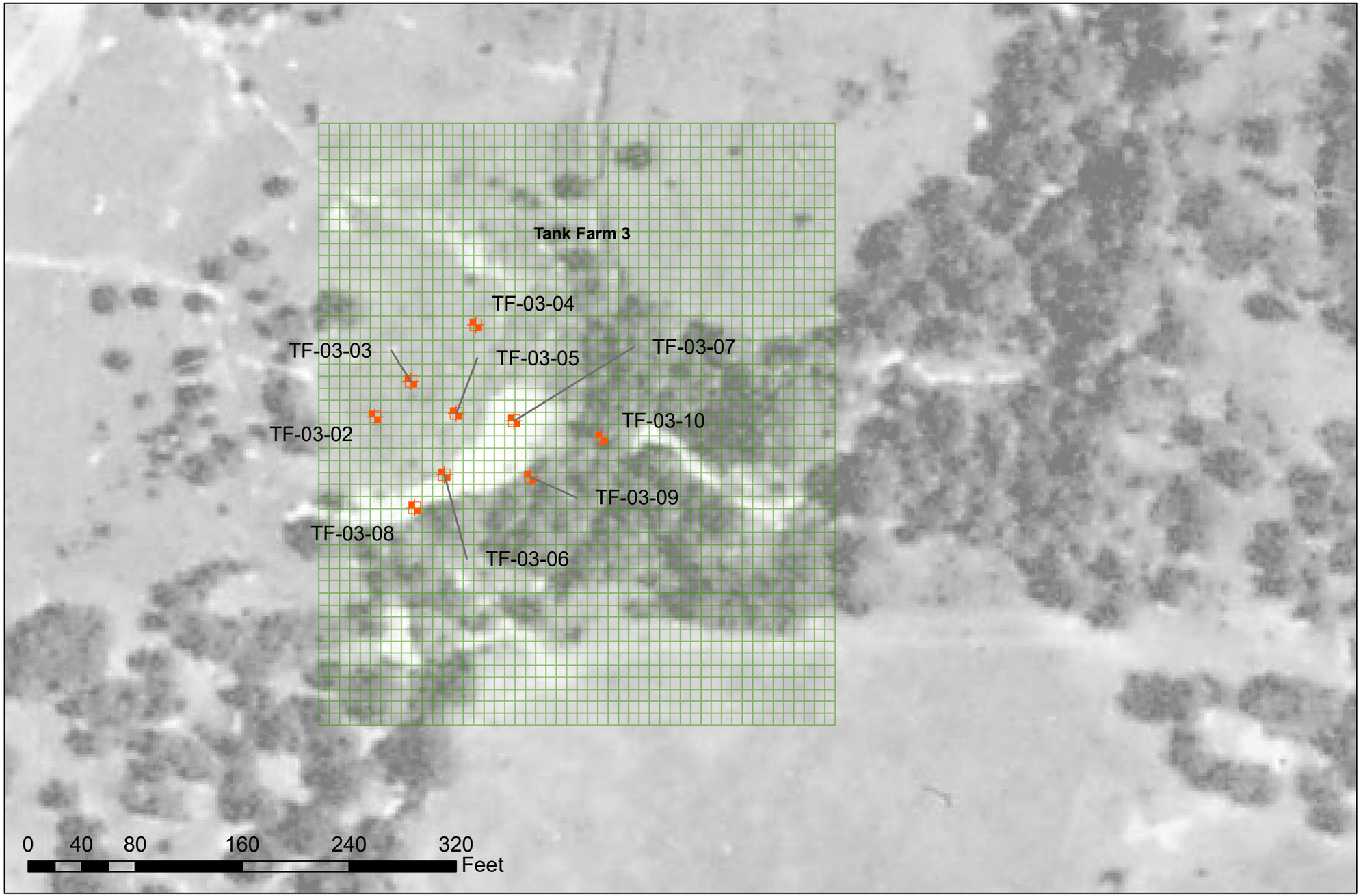
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 5 WilcoxGrid.mxd

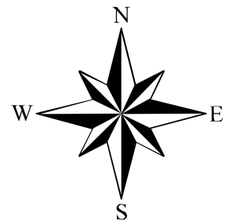
S_2C_2 inc.

014835

Figure 5
ROST Locations and Wilcox Refinery Grid

Wilcox Superfund Site
Bristow, Oklahoma





Legend

- ROST Borings - Kriged
- Tank Farm 3 Grid
- Buildings

NOTES:

The Tank Farm 3 Grid is a rectilinear grid with an X Resolution of 51 and a Y resolution of 51. Cells are approximately 8 ft by 8 ft in width/length.

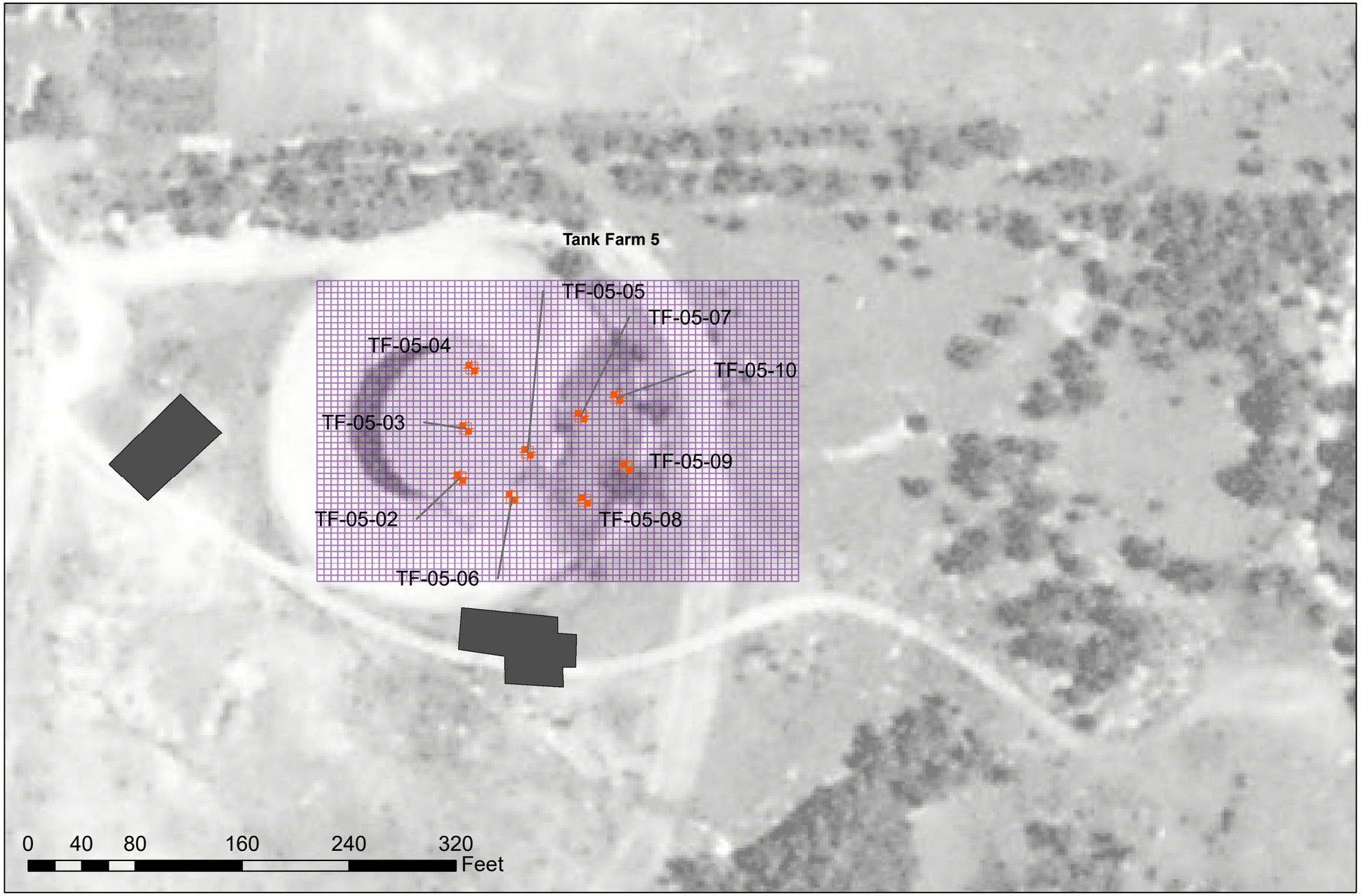
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 6 TF-03Grid.mxd

Figure 6
ROST Locations and
Tank Farm 3 Grid

Wilcox Superfund Site
Bristow, Oklahoma

S_2C_2 inc.

014836



N
W
E
S

Legend

- ROST Borings - Kriged
- Tank Farm 5 Grid
- Buildings

NOTES:

The Tank Farm 5 Grid is a rectilinear grid with an X Resolution of 71 and a Y resolution of 51. Cells are approximately 5 ft by 5 ft in width/length.

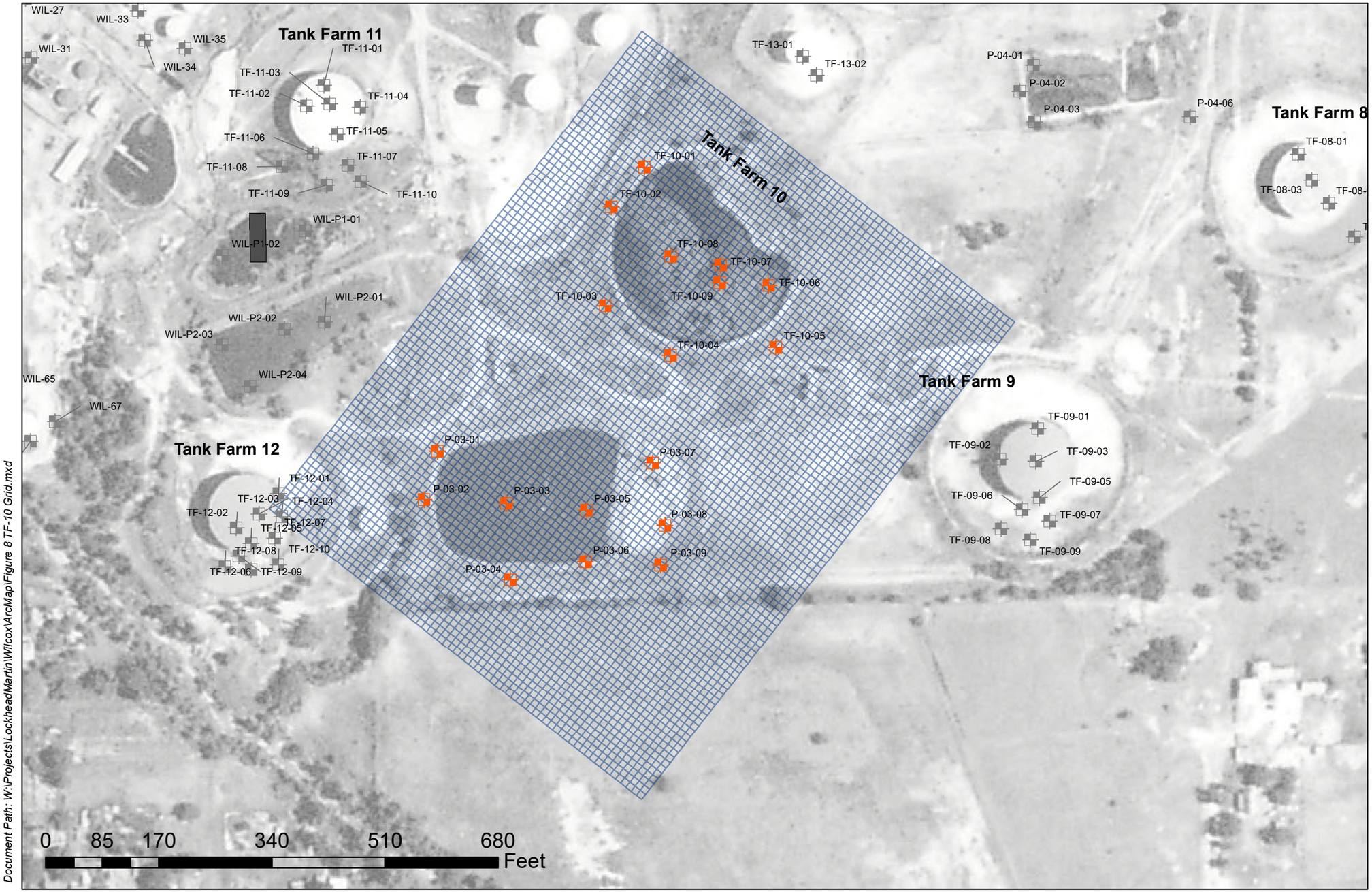
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 7 TF-05 Grid.mxd

S_2C_2 inc.

014837

Figure 7
ROST Locations and
Tank Farm 5 Grid

Wilcox Superfund Site
Bristow, Oklahoma



Legend

- ROST Borigns - Kriged
- ROST Borings - Not Kriged
- Tank Farm 10 Grid
- Buildings

NOTES:

The Tank Farm 10 Grid is a finite-difference grid rotated 52 degrees with an X Resolution of 92 and a Y resolution of 72. Cells are approximately 10 ft by 10 ft in width/length.

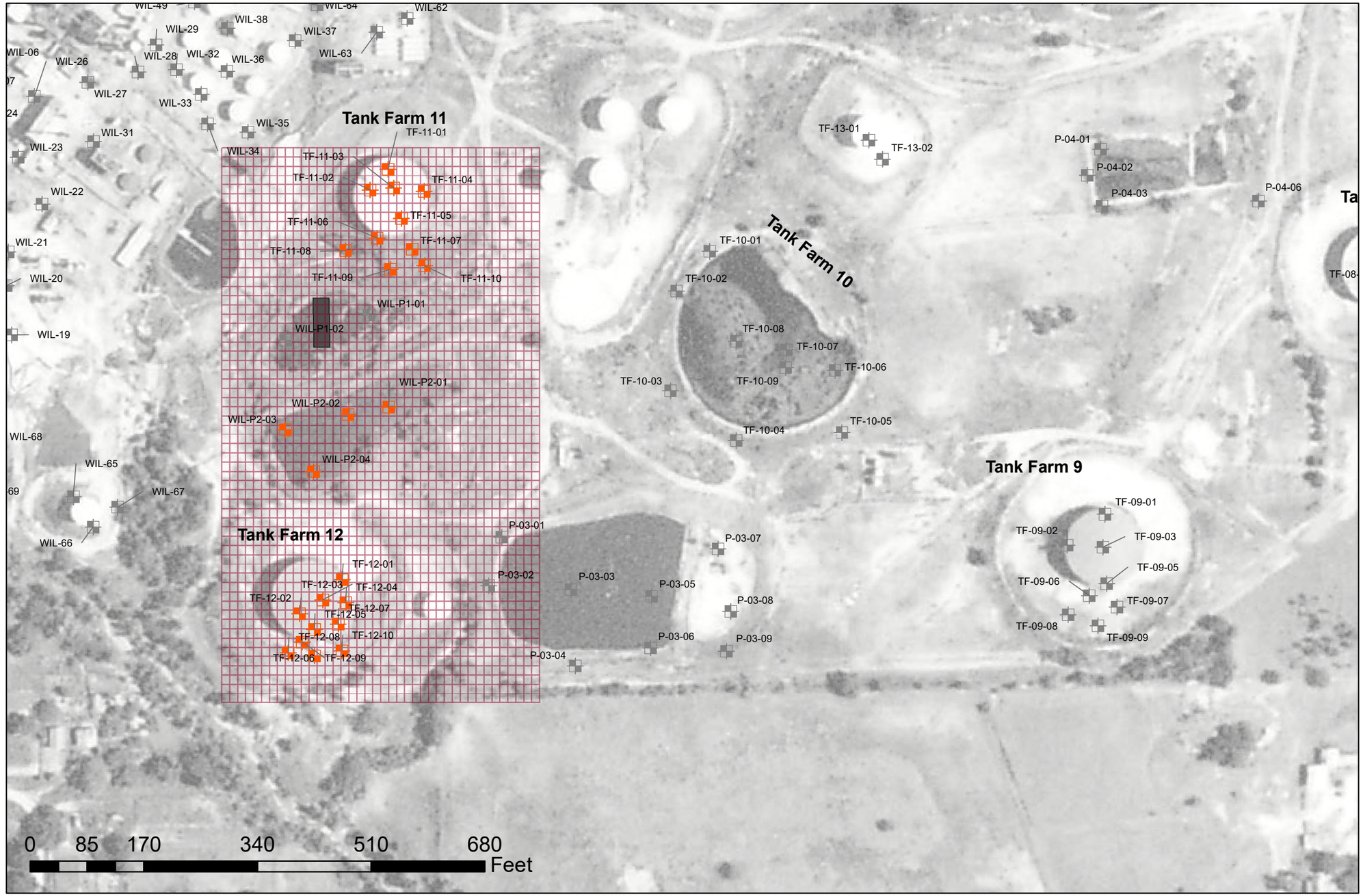
Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 8 TF-10 Grid.mxd

S2C2 inc.

014838

Figure 8
ROST Locations and
Tank Farm 10 Grid

Wilcox Superfund Site
Bristow, Oklahoma



Legend

- ROST Borings - Kriged
- ROST Borings - Not Kriged
- Tank Farms 11 & 12 Grid
- Buildings

NOTES:

The Tank Farm 11 & 12 Grid is a rectilinear grid with an X Resolution of 41 and a Y resolution of 61. Cells are approximately 12 ft by 17 ft in width/length.

Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 9 TF-11_12 Grid.mxd

S2C2 inc.

014839

Figure 9
ROST Locations and
Tank Farms 11 & 12 Grid

Wilcox Superfund Site
Bristow, Oklahoma

Former Loraine Refinery

Former Wilcox Refinery

Tank Farm 7

Tank Farm 6

Tank Farm 5

Tank Farm 11

Tank Farm 10

Tank Farm 8

Tank Farm 9

Tank Farm 12

Tank Farm 3

N

W E

S

Legend

ROST Borings

Grid Boundaries

- Wilcox Refinery Grid
- Loraine Refinery Grid
- Tank Farm 3 Grid
- Tank Farm 5 Grid
- Tank Farm 6 Grid
- Tank Farm 10 Grid
- Tank Farm 11 & 12 Grid
- Site Wide Grid

Overburden Thickness

- < 5 ft
- 5 - 10 ft
- 10 - 15 ft
- 15 - 20 ft
- 20 - 25 ft
- 25 - 30 ft
- 30 - 35 ft
- 35 - 40 ft
- > 40.000
- Buildings

0 160 320 640 960 1,280 Feet

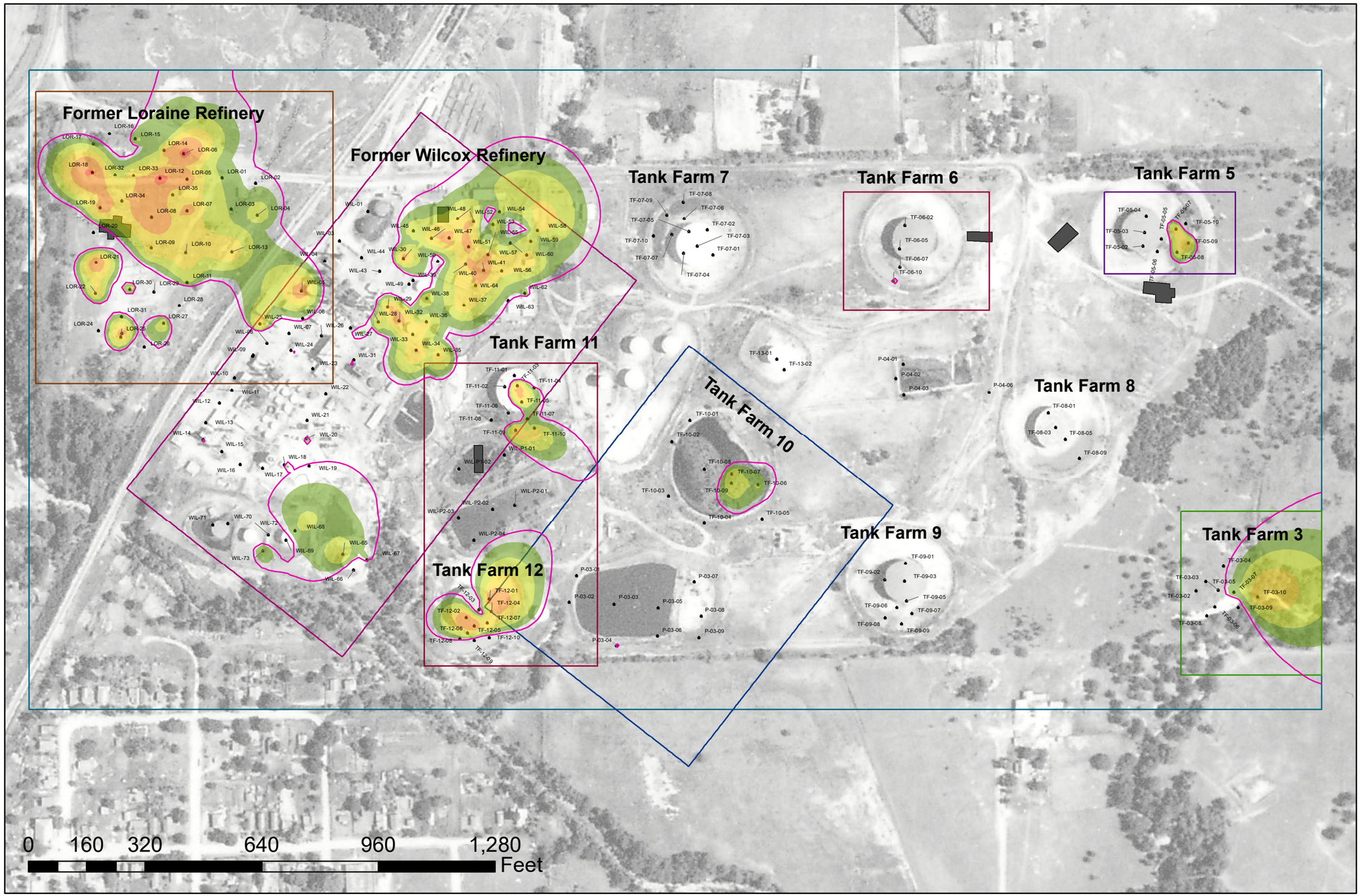
Document Path: W:\Projects\LockheadMartin\WilcoxArcMap\Figure 10 Geologic Surface Comparison.mxd

S2C2 inc.

014840

Figure 10
Overburden Thickness Isopach Map
Topography - CPT Refusal

Wilcox Superfund Site
Bristow, Oklahoma



N
W E
S

Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 11 2D Max Total Fluorescence Site Wide.mxd

Legend

2D Maximum Fluorescence

Median Predicted Resuls (%RE)

- 3 - 5 % RE
- 5 - 10 % RE
- 10 - 25 % RE
- 25 - 100 % RE
- > 100 % RE

Maximum Predicted Extent (80% Conf.)

- Total Fluorescence - 3 % RE
- ROST Borings

Grid Boundaries

- Wilcox Refinery Grid
- Loraine Refinery Grid
- Tank Farm 3 Grid
- Tank Farm 5 Grid
- Tank Farm 6 Grid
- Tank Farm 10 Grid
- Tank Farm 11 & 12 Grid
- Site Wide Grid
- Buildings

S2C2 inc.

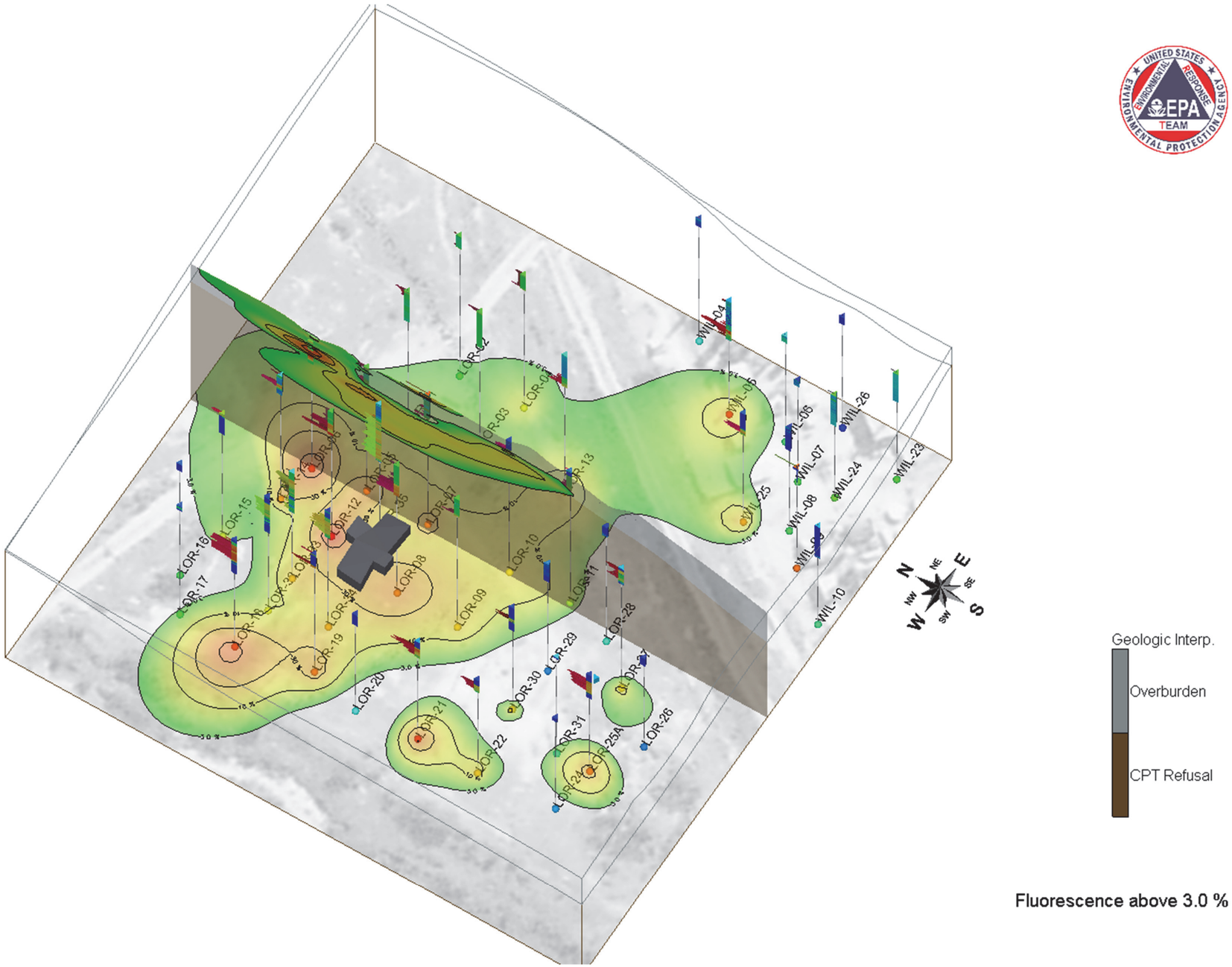
014841

Figure 11
2D Maximum Total Fluorescence
Site Wide

Wilcox Superfund Site
Bristow, Oklahoma

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

Fluorescence above 3.0 %

Figure 12: 3D Total Fluorescence – Loraine Grid

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x

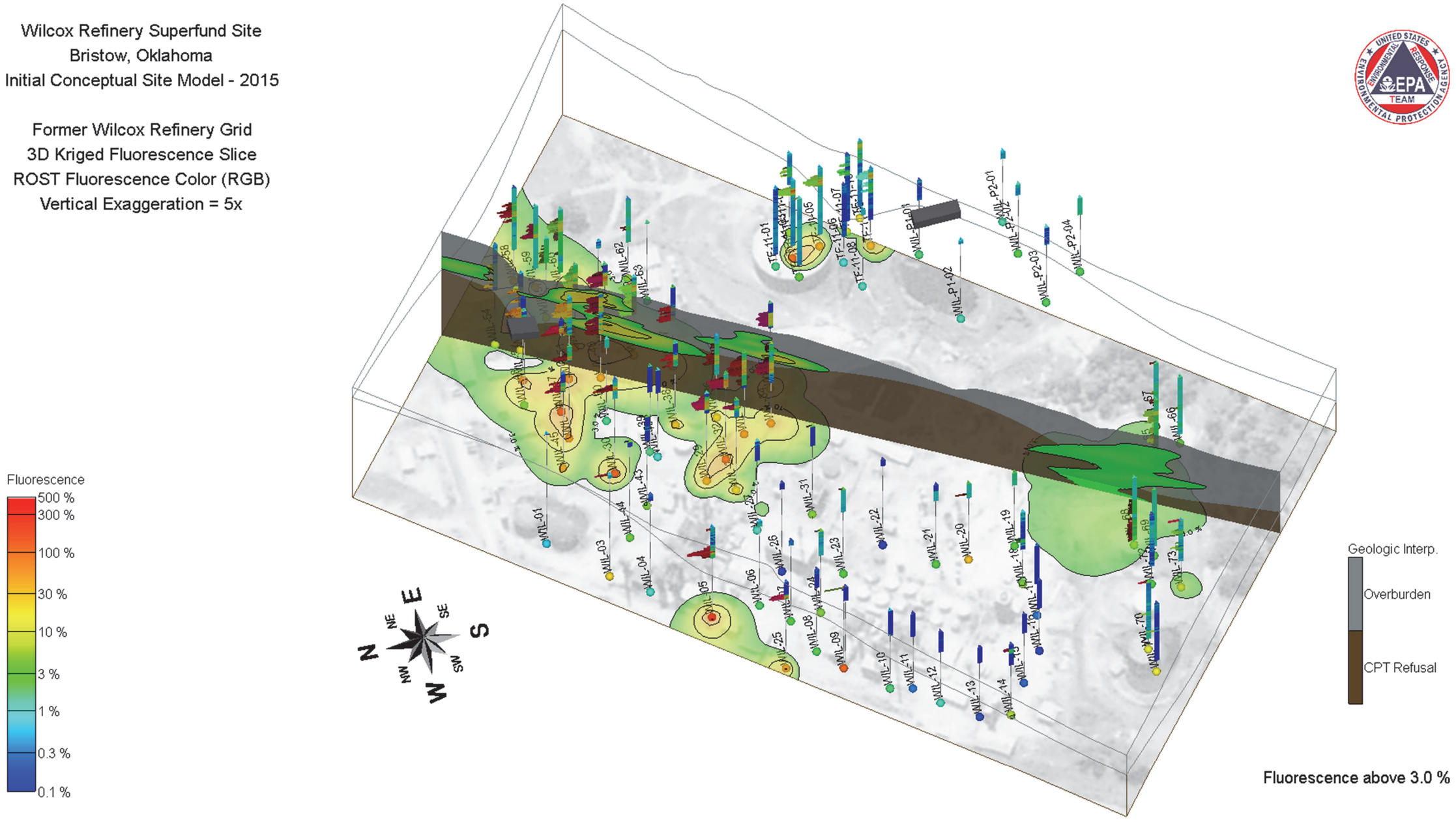
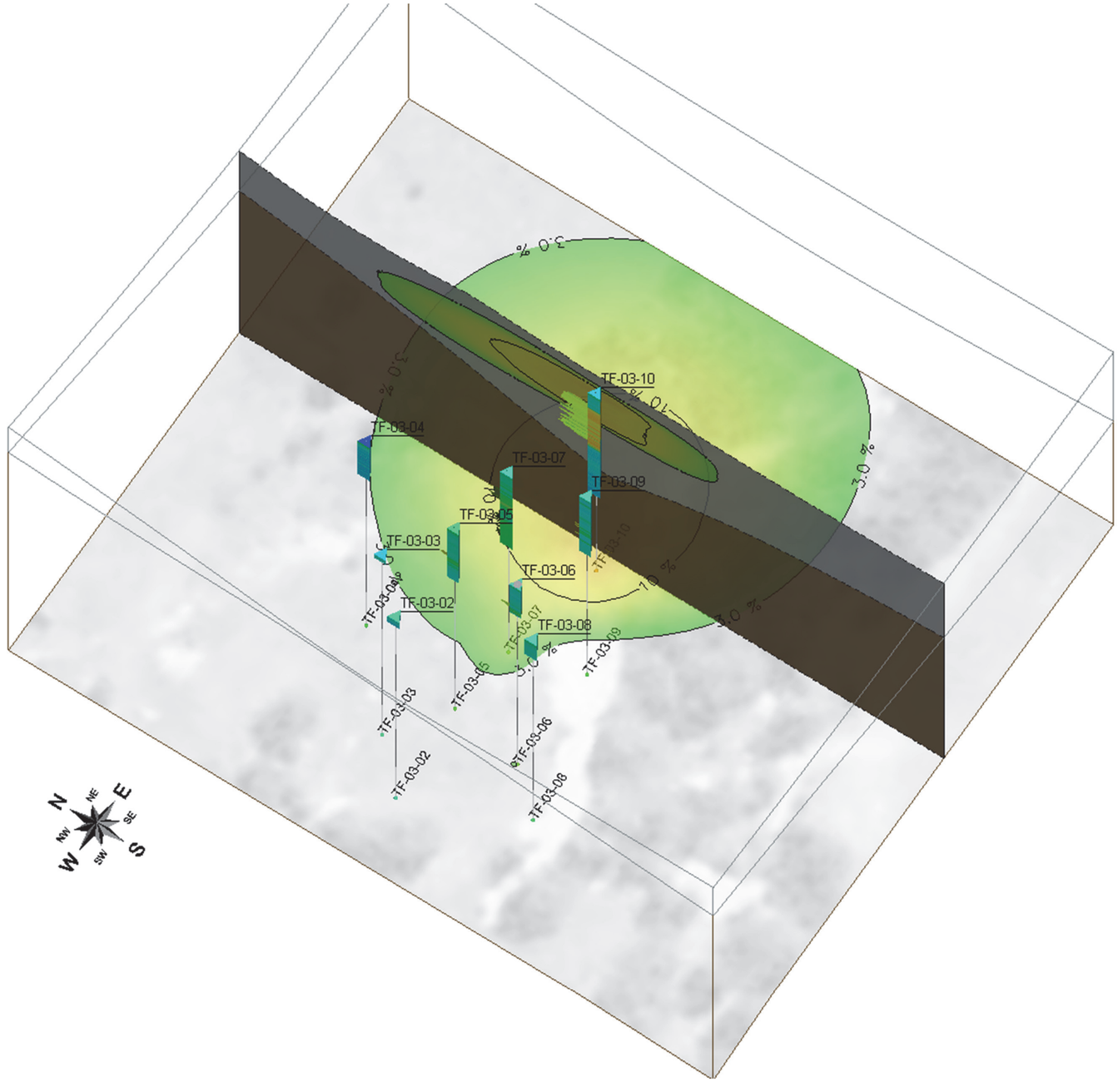


Figure 13: 3D Total Fluorescence – Wilcox Grid

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

Fluorescence above 3.0 %

Figure 14: 3D Total Fluorescence – Tank Farm 3 Grid

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 2x

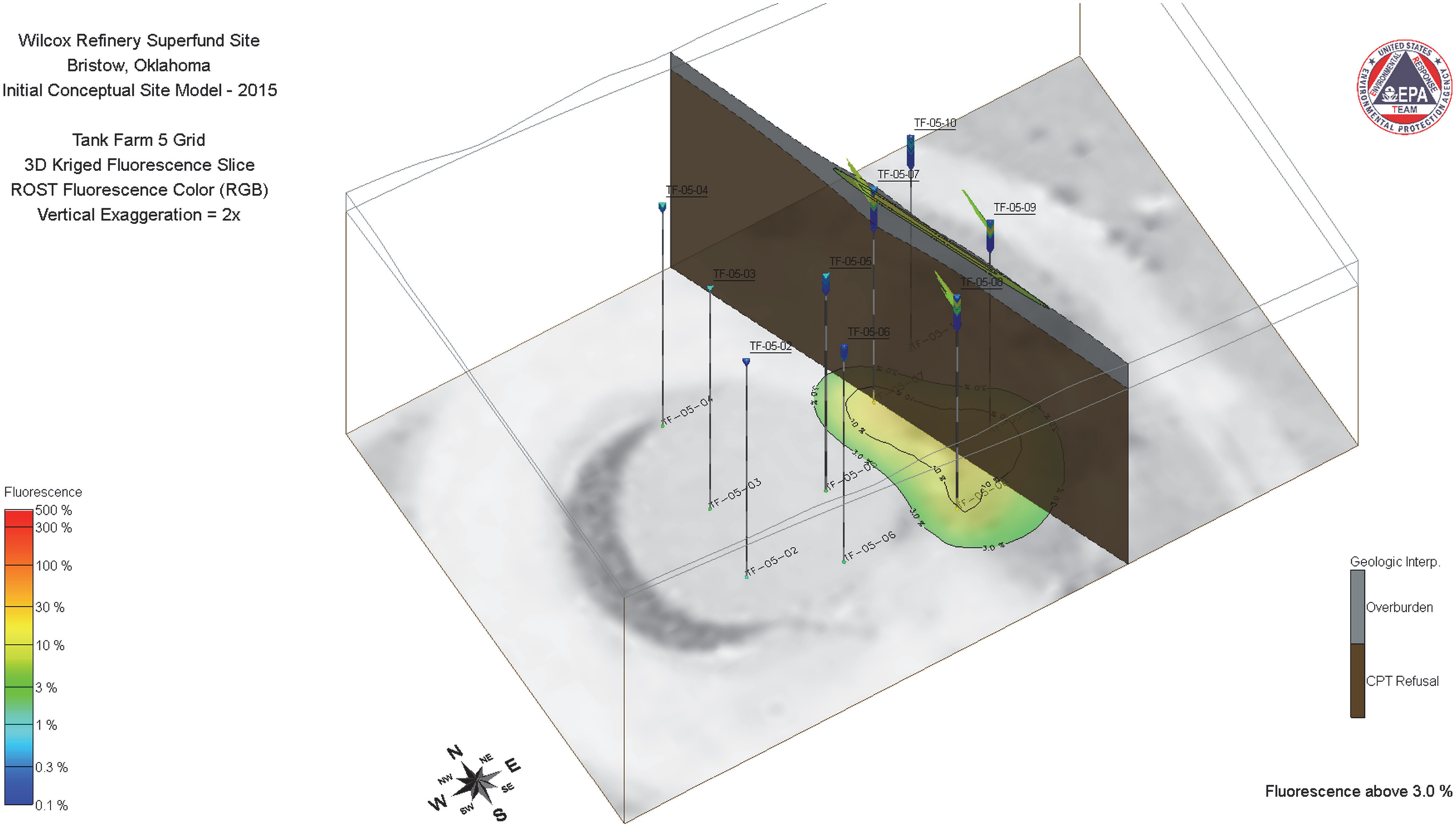
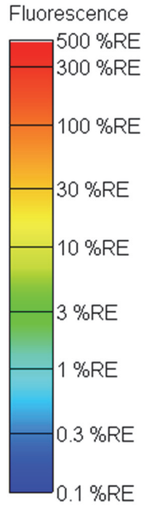


Figure 15: 3D Total Fluorescence – Tank Farm 5 Grid

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



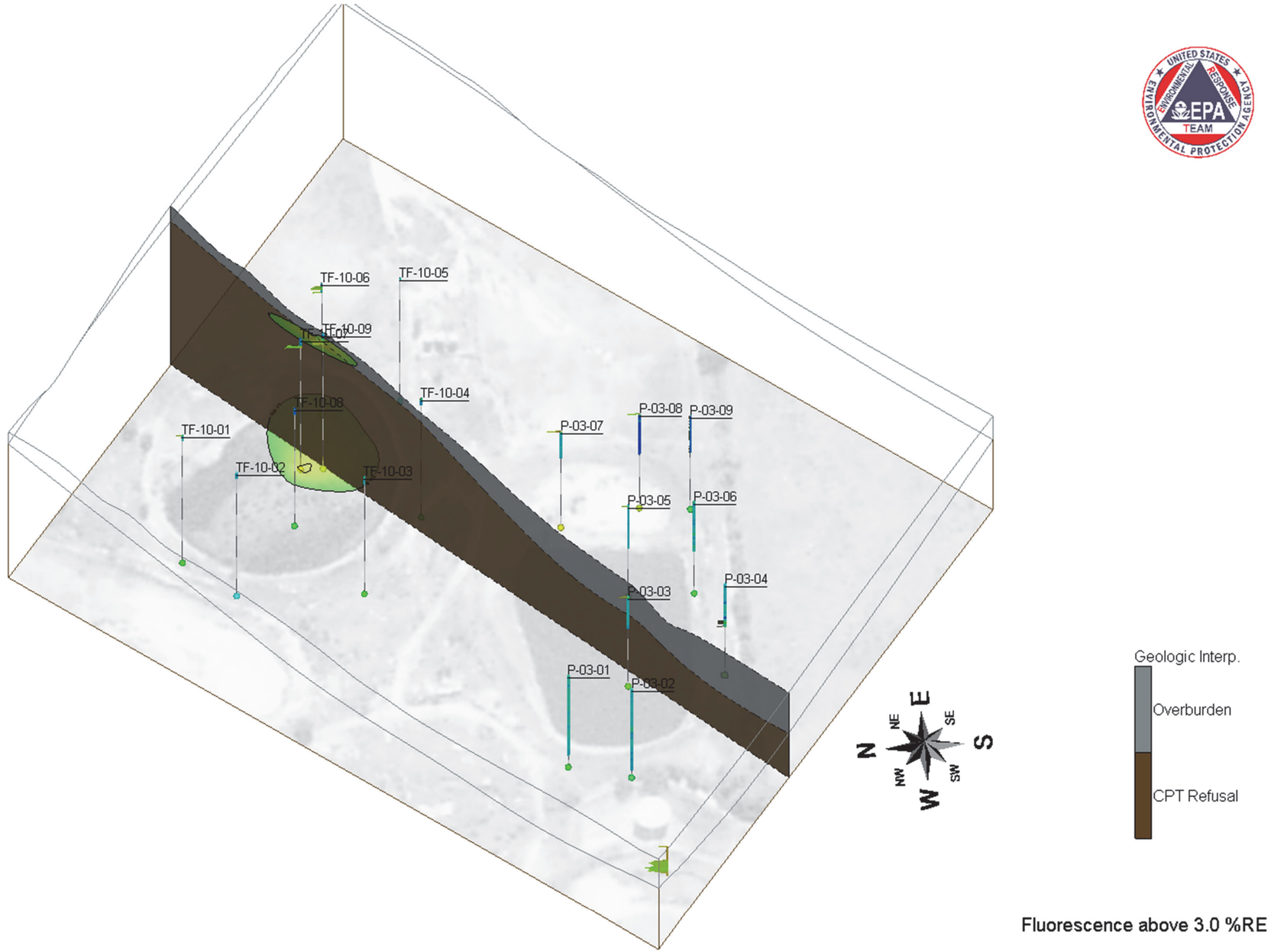
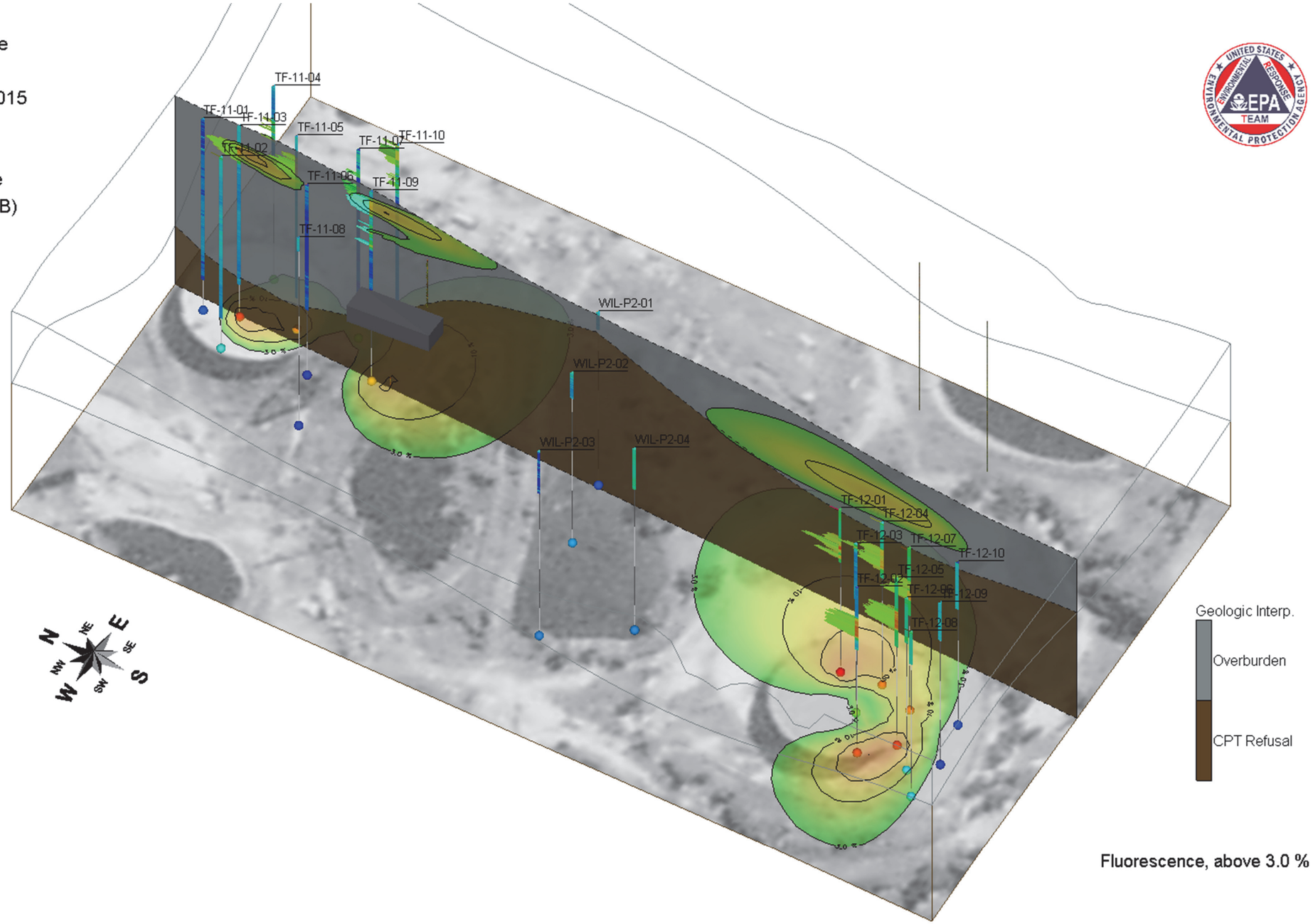


Figure 16: 3D Total Fluorescence – Tank Farm 10 Grid

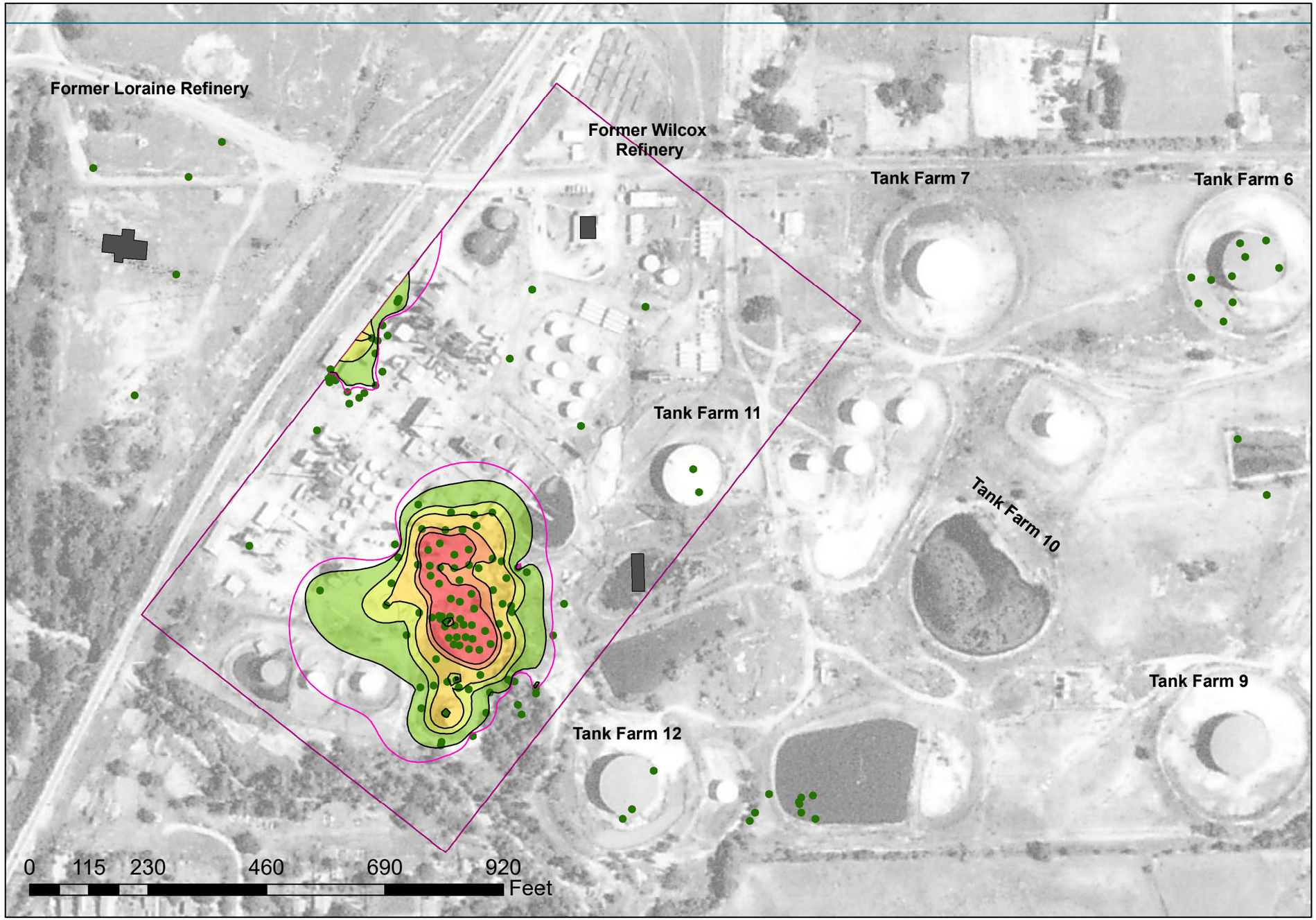
Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Figure 17: 3D Total Fluorescence – Tank Farms 1 & 12 Grid



N
W E
S

Legend

- Lead Soil Borings

Kriged Lead (2D)

- < 200 mg/kg (Not Shown)
- 200 - 500 mg/kg
- 500 - 1,000 mg/kg
- 1,000 - 5,000 mg/kg
- 5,000 - 10,000 mg/kg
- > 10,000 mg/kg
- 2D Maximum Predicted Extent - 200 mg/kg

Grid Boundaries

- Wilcox Refinery Grid
- Site Wide Grid
- Buildings

NOTES:

Aerial photograph was taken circa 1956 and was provided in State Plane coordinates. Topographic contours were created in MVS based on GPS elevations for Ground Penetrating Radar locations, ROST borings, and soil borings.

Document Path: W:\Projects\LockheadMartin\Wilcox\ArcMap\Figure 19 XRF Wilcox 2DMax.mxd

Figure 18
2D Maximum Lead In Soil - Wilcox Grid

Wilcox Superfund Site
Bristow, Oklahoma

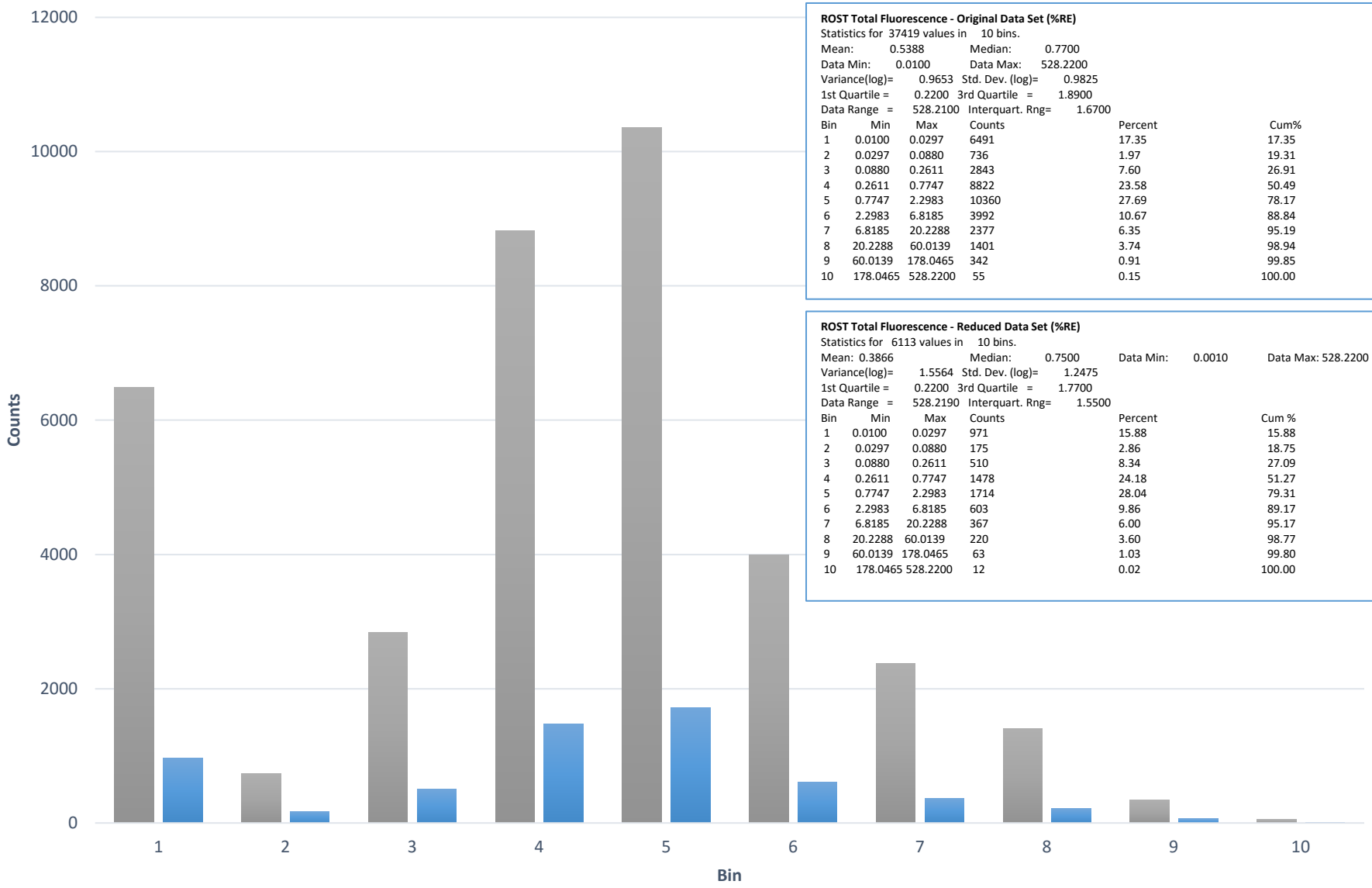
S2 C2 inc.

014848

Attachment 1

Summary of Data File Statistics

ROST Fluorescence - All Data



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 37419 values in 10 bins.

Mean: 0.5388 Median: 0.7700

Data Min: 0.0100 Data Max: 528.2200

Variance(log)= 0.9653 Std. Dev. (log)= 0.9825

1st Quartile = 0.2200 3rd Quartile = 1.8900

Data Range = 528.2100 Interquart. Rng= 1.6700

Bin	Min	Max	Counts	Percent	Cum%
1	0.0100	0.0297	6491	17.35	17.35
2	0.0297	0.0880	736	1.97	19.31
3	0.0880	0.2611	2843	7.60	26.91
4	0.2611	0.7747	8822	23.58	50.49
5	0.7747	2.2983	10360	27.69	78.17
6	2.2983	6.8185	3992	10.67	88.84
7	6.8185	20.2288	2377	6.35	95.19
8	20.2288	60.0139	1401	3.74	98.94
9	60.0139	178.0465	342	0.91	99.85
10	178.0465	528.2200	55	0.15	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 6113 values in 10 bins.

Mean: 0.3866 Median: 0.7500 Data Min: 0.0010 Data Max: 528.2200

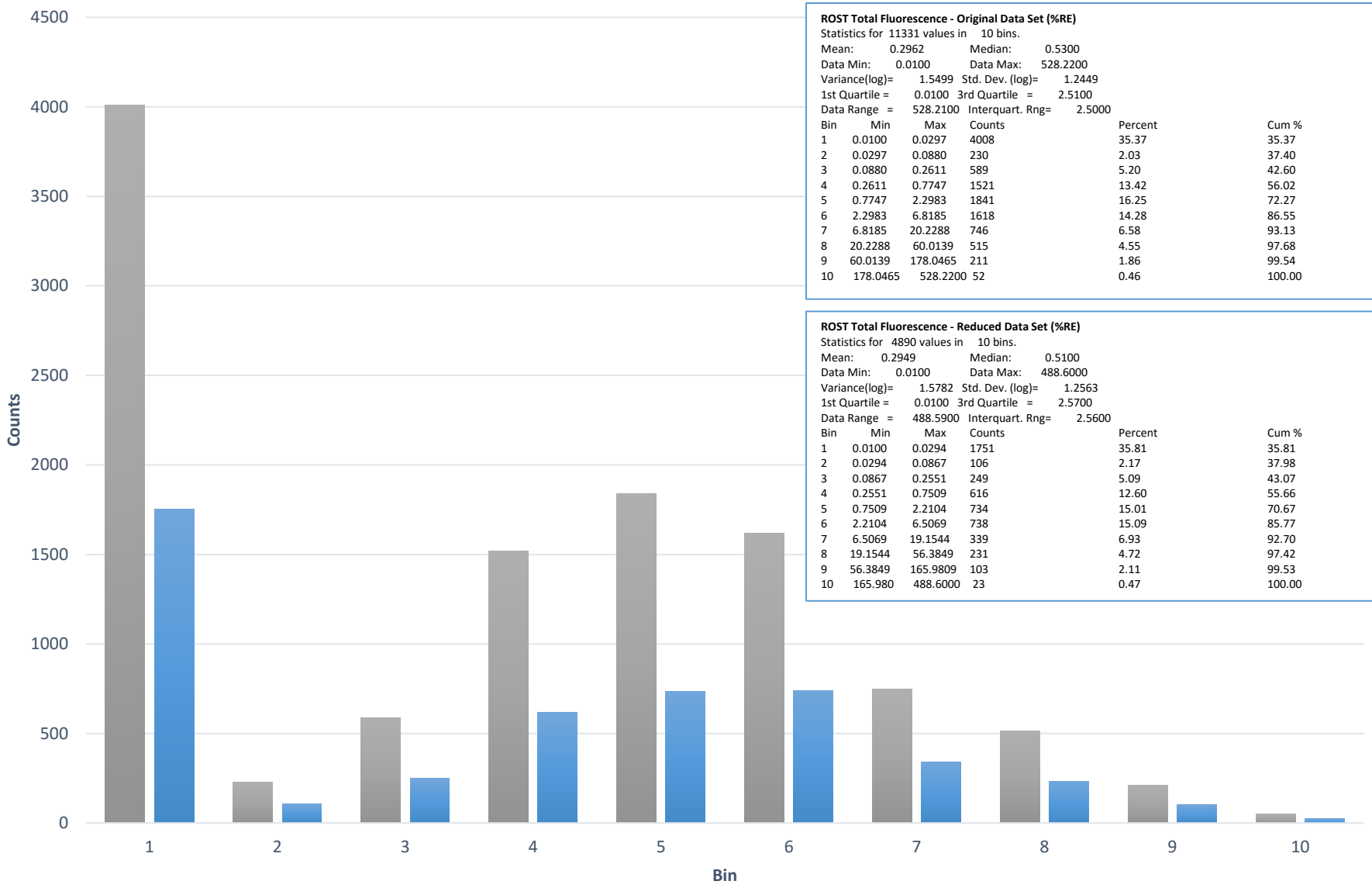
Variance(log)= 1.5564 Std. Dev. (log)= 1.2475

1st Quartile = 0.2200 3rd Quartile = 1.7700

Data Range = 528.2190 Interquart. Rng= 1.5500

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0297	971	15.88	15.88
2	0.0297	0.0880	175	2.86	18.75
3	0.0880	0.2611	510	8.34	27.09
4	0.2611	0.7747	1478	24.18	51.27
5	0.7747	2.2983	1714	28.04	79.31
6	2.2983	6.8185	603	9.86	89.17
7	6.8185	20.2288	367	6.00	95.17
8	20.2288	60.0139	220	3.60	98.77
9	60.0139	178.0465	63	1.03	99.80
10	178.0465	528.2200	12	0.02	100.00

ROST Fluorescence - Loraine Refinery Area



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 11331 values in 10 bins.

Mean: 0.2962 Median: 0.5300

Data Min: 0.0100 Data Max: 528.2200

Variance(log)= 1.5499 Std. Dev. (log)= 1.2449

1st Quartile = 0.0100 3rd Quartile = 2.5100

Data Range = 528.2100 Interquart. Rng= 2.5000

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0297	4008	35.37	35.37
2	0.0297	0.0880	230	2.03	37.40
3	0.0880	0.2611	589	5.20	42.60
4	0.2611	0.7747	1521	13.42	56.02
5	0.7747	2.2983	1841	16.25	72.27
6	2.2983	6.8185	1618	14.28	86.55
7	6.8185	20.2288	746	6.58	93.13
8	20.2288	60.0139	515	4.55	97.68
9	60.0139	178.0465	211	1.86	99.54
10	178.0465	528.2200	52	0.46	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 4890 values in 10 bins.

Mean: 0.2949 Median: 0.5100

Data Min: 0.0100 Data Max: 488.6000

Variance(log)= 1.5782 Std. Dev. (log)= 1.2563

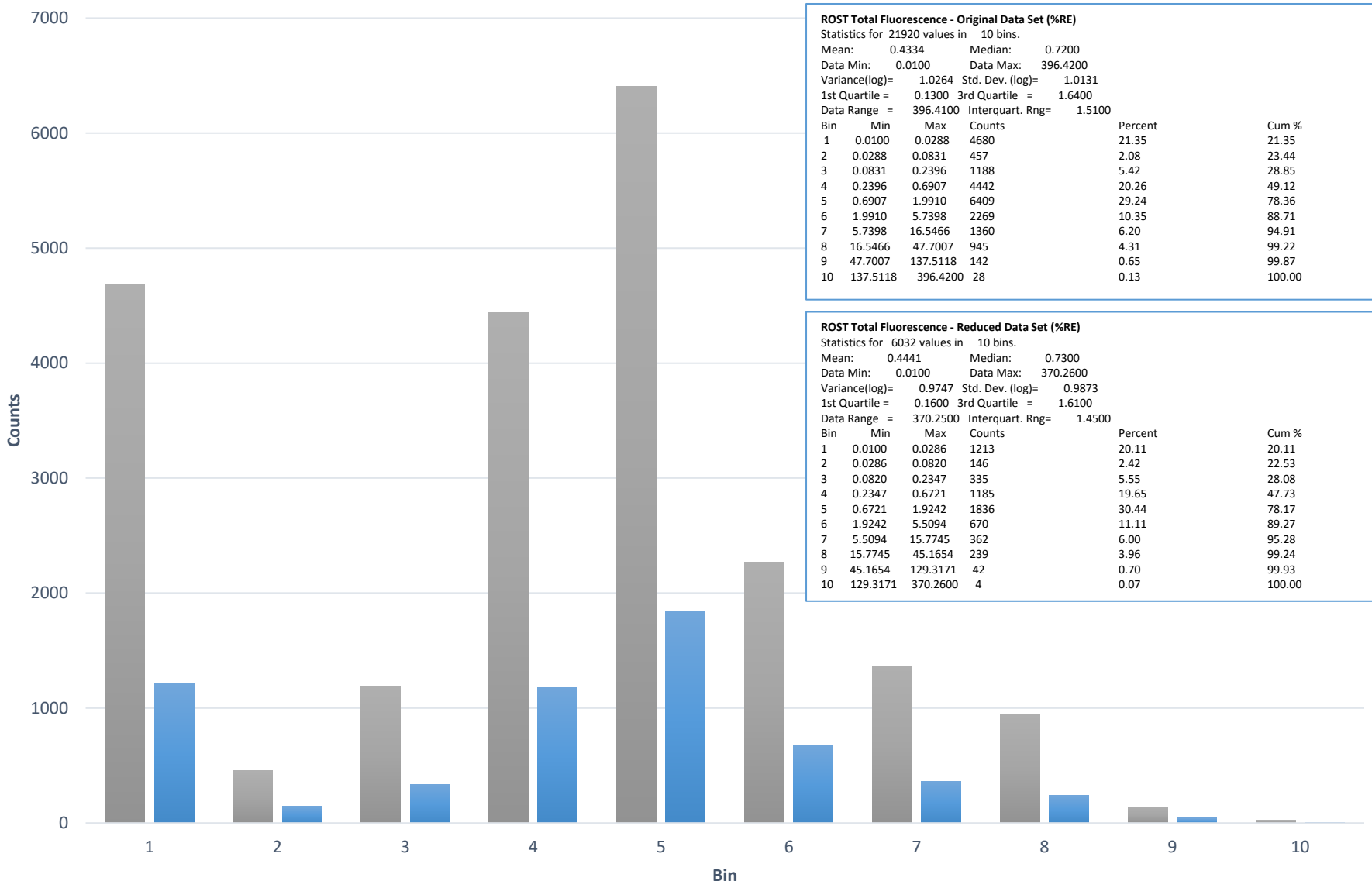
1st Quartile = 0.0100 3rd Quartile = 2.5700

Data Range = 488.5900 Interquart. Rng= 2.5600

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0294	1751	35.81	35.81
2	0.0294	0.0867	106	2.17	37.98
3	0.0867	0.2551	249	5.09	43.07
4	0.2551	0.7509	616	12.60	55.66
5	0.7509	2.2104	734	15.01	70.67
6	2.2104	6.5069	738	15.09	85.77
7	6.5069	19.1544	339	6.93	92.70
8	19.1544	56.3849	231	4.72	97.42
9	56.3849	165.9809	103	2.11	99.53
10	165.980	488.6000	23	0.47	100.00

014851

ROST Fluorescence - Wilcox Refinery Area



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 21920 values in 10 bins.

Mean: 0.4334 Median: 0.7200

Data Min: 0.0100 Data Max: 396.4200

Variance(log)= 1.0264 Std. Dev. (log)= 1.0131

1st Quartile = 0.1300 3rd Quartile = 1.6400

Data Range = 396.4100 Interquart. Rng= 1.5100

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0288	4680	21.35	21.35
2	0.0288	0.0831	457	2.08	23.44
3	0.0831	0.2396	1188	5.42	28.85
4	0.2396	0.6907	4442	20.26	49.12
5	0.6907	1.9910	6409	29.24	78.36
6	1.9910	5.7398	2269	10.35	88.71
7	5.7398	16.5466	1360	6.20	94.91
8	16.5466	47.7007	945	4.31	99.22
9	47.7007	137.5118	142	0.65	99.87
10	137.5118	396.4200	28	0.13	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 6032 values in 10 bins.

Mean: 0.4441 Median: 0.7300

Data Min: 0.0100 Data Max: 370.2600

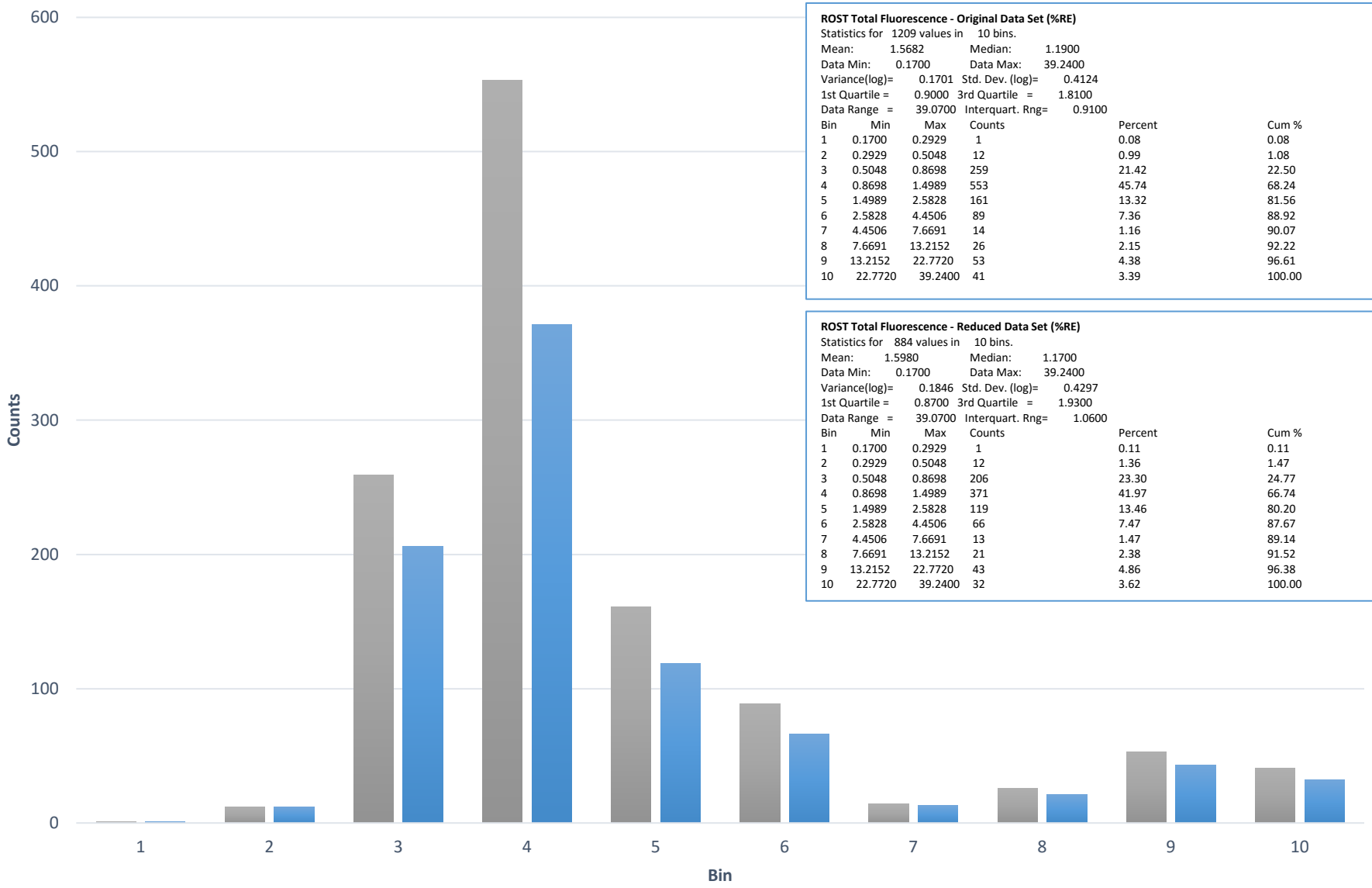
Variance(log)= 0.9747 Std. Dev. (log)= 0.9873

1st Quartile = 0.1600 3rd Quartile = 1.6100

Data Range = 370.2500 Interquart. Rng= 1.4500

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0286	1213	20.11	20.11
2	0.0286	0.0820	146	2.42	22.53
3	0.0820	0.2347	335	5.55	28.08
4	0.2347	0.6721	1185	19.65	47.73
5	0.6721	1.9242	1836	30.44	78.17
6	1.9242	5.5094	670	11.11	89.27
7	5.5094	15.7745	362	6.00	95.28
8	15.7745	45.1654	239	3.96	99.24
9	45.1654	129.3171	42	0.70	99.93
10	129.3171	370.2600	4	0.07	100.00

ROST Fluorescence - Tank Farm 3



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 1209 values in 10 bins.

Mean: 1.5682 Median: 1.1900

Data Min: 0.1700 Data Max: 39.2400

Variance(log)= 0.1701 Std. Dev. (log)= 0.4124

1st Quartile = 0.9000 3rd Quartile = 1.8100

Data Range = 39.0700 Interquart. Rng= 0.9100

Bin	Min	Max	Counts	Percent	Cum %
1	0.1700	0.2929	1	0.08	0.08
2	0.2929	0.5048	12	0.99	1.08
3	0.5048	0.8698	259	21.42	22.50
4	0.8698	1.4989	553	45.74	68.24
5	1.4989	2.5828	161	13.32	81.56
6	2.5828	4.4506	89	7.36	88.92
7	4.4506	7.6691	14	1.16	90.07
8	7.6691	13.2152	26	2.15	92.22
9	13.2152	22.7720	53	4.38	96.61
10	22.7720	39.2400	41	3.39	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 884 values in 10 bins.

Mean: 1.5980 Median: 1.1700

Data Min: 0.1700 Data Max: 39.2400

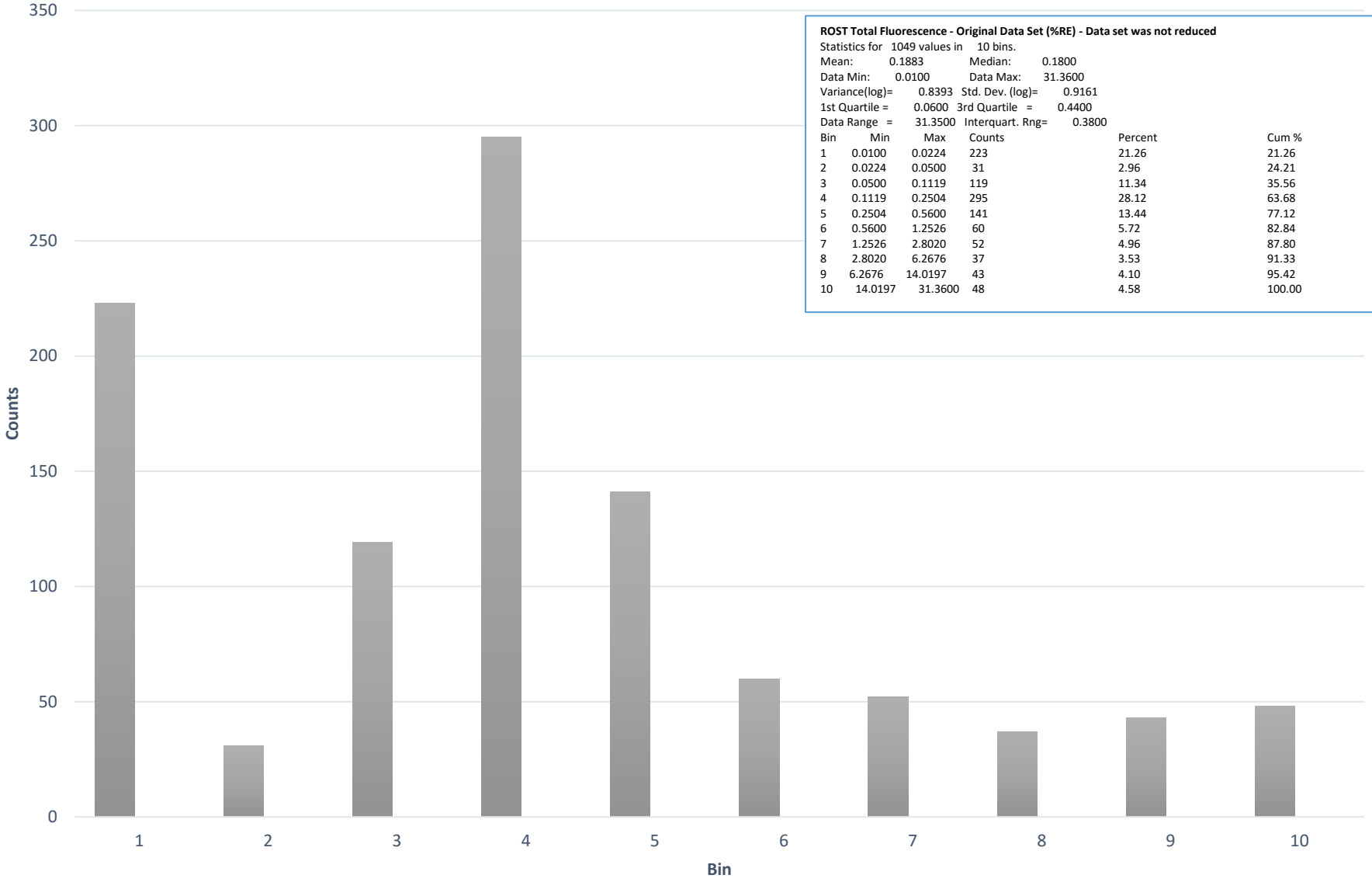
Variance(log)= 0.1846 Std. Dev. (log)= 0.4297

1st Quartile = 0.8700 3rd Quartile = 1.9300

Data Range = 39.0700 Interquart. Rng= 1.0600

Bin	Min	Max	Counts	Percent	Cum %
1	0.1700	0.2929	1	0.11	0.11
2	0.2929	0.5048	12	1.36	1.47
3	0.5048	0.8698	206	23.30	24.77
4	0.8698	1.4989	371	41.97	66.74
5	1.4989	2.5828	119	13.46	80.20
6	2.5828	4.4506	66	7.47	87.67
7	4.4506	7.6691	13	1.47	89.14
8	7.6691	13.2152	21	2.38	91.52
9	13.2152	22.7720	43	4.86	96.38
10	22.7720	39.2400	32	3.62	100.00

ROST Fluorescence - Tank Farm 5



ROST Total Fluorescence - Original Data Set (%RE) - Data set was not reduced

Statistics for 1049 values in 10 bins.

Mean: 0.1883 Median: 0.1800

Data Min: 0.0100 Data Max: 31.3600

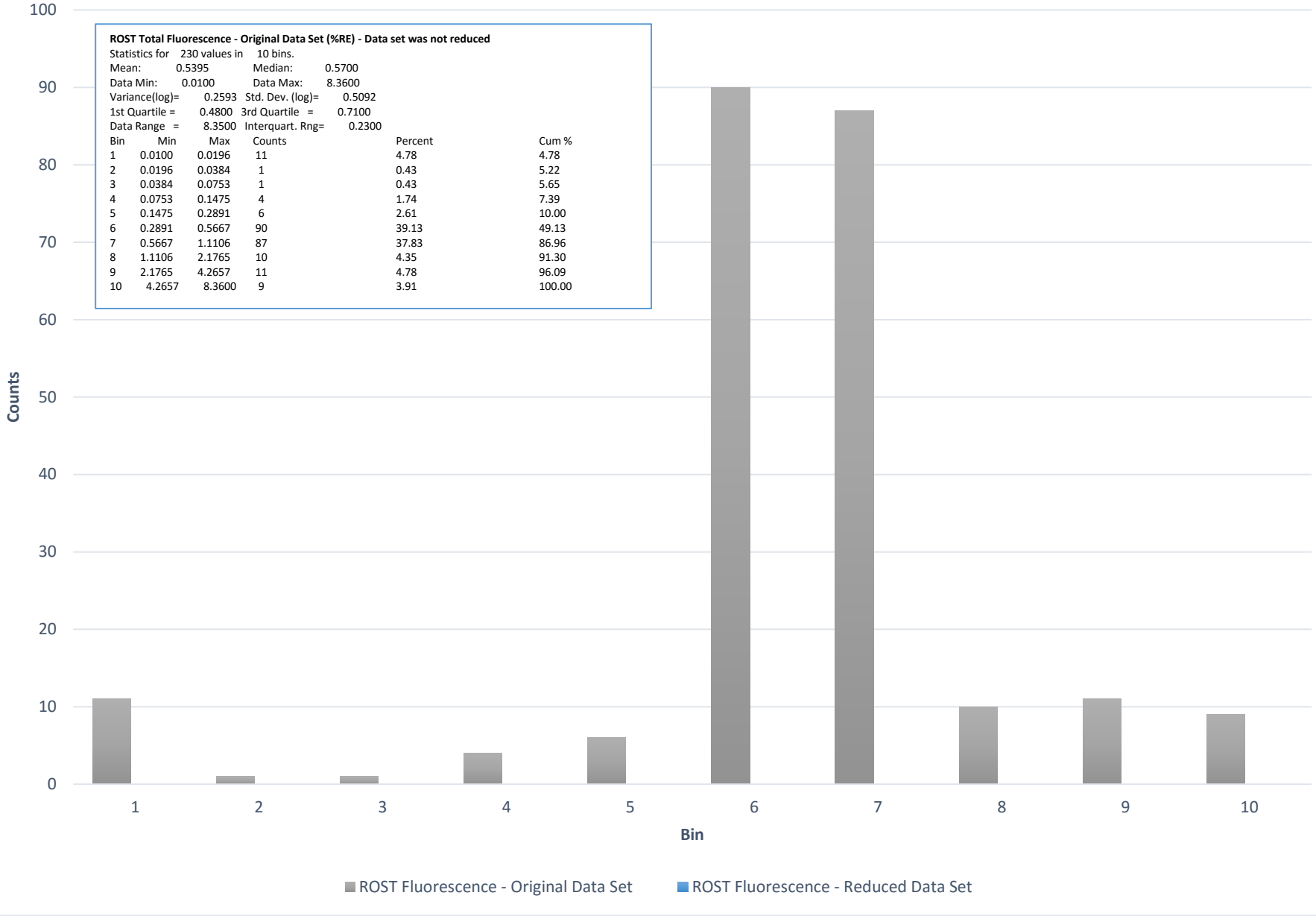
Variance(log)= 0.8393 Std. Dev. (log)= 0.9161

1st Quartile = 0.0600 3rd Quartile = 0.4400

Data Range = 31.3500 Interquart. Rng= 0.3800

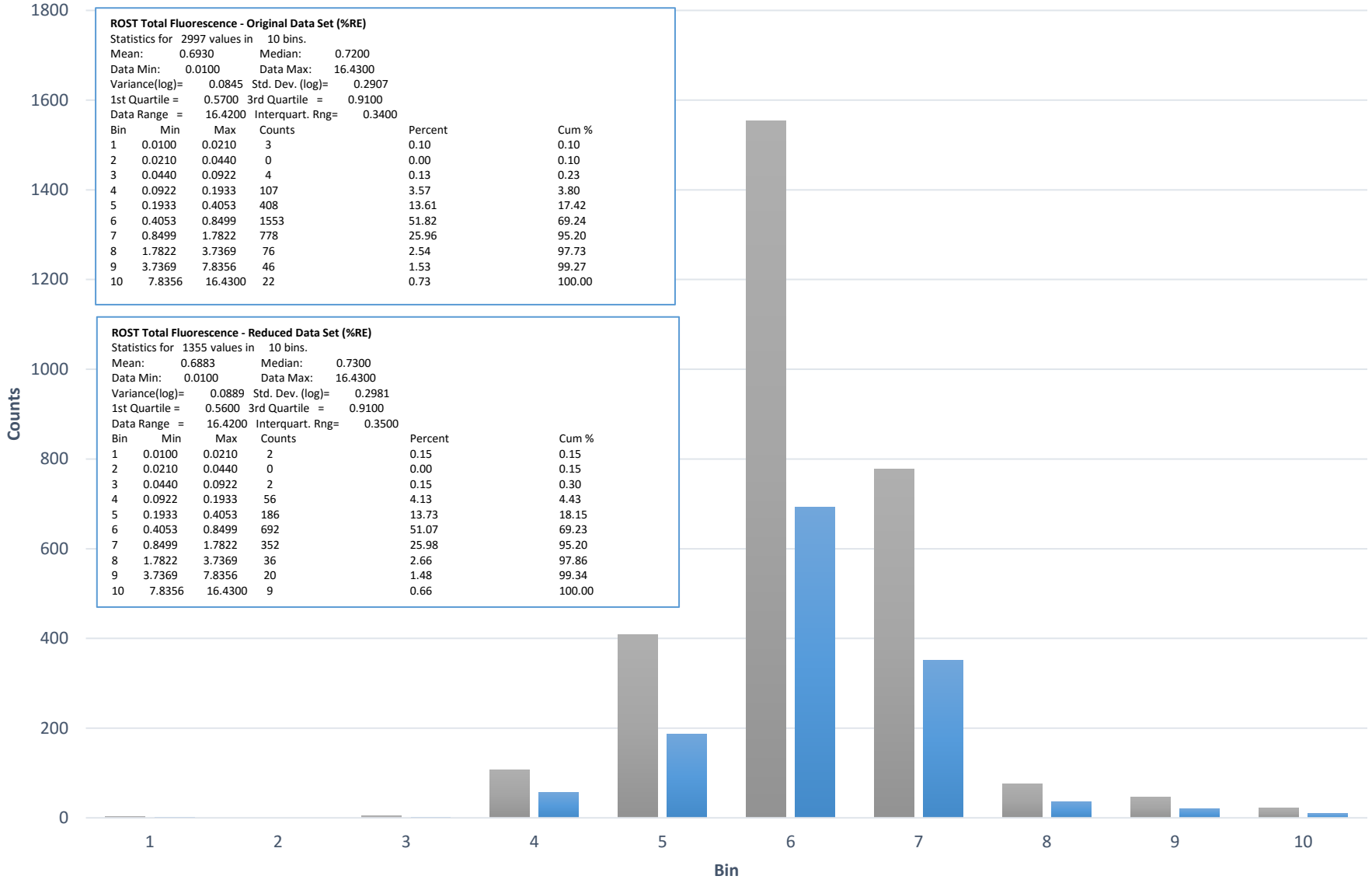
Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0224	223	21.26	21.26
2	0.0224	0.0500	31	2.96	24.21
3	0.0500	0.1119	119	11.34	35.56
4	0.1119	0.2504	295	28.12	63.68
5	0.2504	0.5600	141	13.44	77.12
6	0.5600	1.2526	60	5.72	82.84
7	1.2526	2.8020	52	4.96	87.80
8	2.8020	6.2676	37	3.53	91.33
9	6.2676	14.0197	43	4.10	95.42
10	14.0197	31.3600	48	4.58	100.00

ROST Fluorescence - Tank Farm 6



014855

ROST Fluorescence - Tank Farm 10



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 2997 values in 10 bins.

Mean: 0.6930 Median: 0.7200

Data Min: 0.0100 Data Max: 16.4300

Variance(log)= 0.0845 Std. Dev. (log)= 0.2907

1st Quartile = 0.5700 3rd Quartile = 0.9100

Data Range = 16.4200 Interquart. Rng= 0.3400

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0210	3	0.10	0.10
2	0.0210	0.0440	0	0.00	0.10
3	0.0440	0.0922	4	0.13	0.23
4	0.0922	0.1933	107	3.57	3.80
5	0.1933	0.4053	408	13.61	17.42
6	0.4053	0.8499	1553	51.82	69.24
7	0.8499	1.7822	778	25.96	95.20
8	1.7822	3.7369	76	2.54	97.73
9	3.7369	7.8356	46	1.53	99.27
10	7.8356	16.4300	22	0.73	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 1355 values in 10 bins.

Mean: 0.6883 Median: 0.7300

Data Min: 0.0100 Data Max: 16.4300

Variance(log)= 0.0889 Std. Dev. (log)= 0.2981

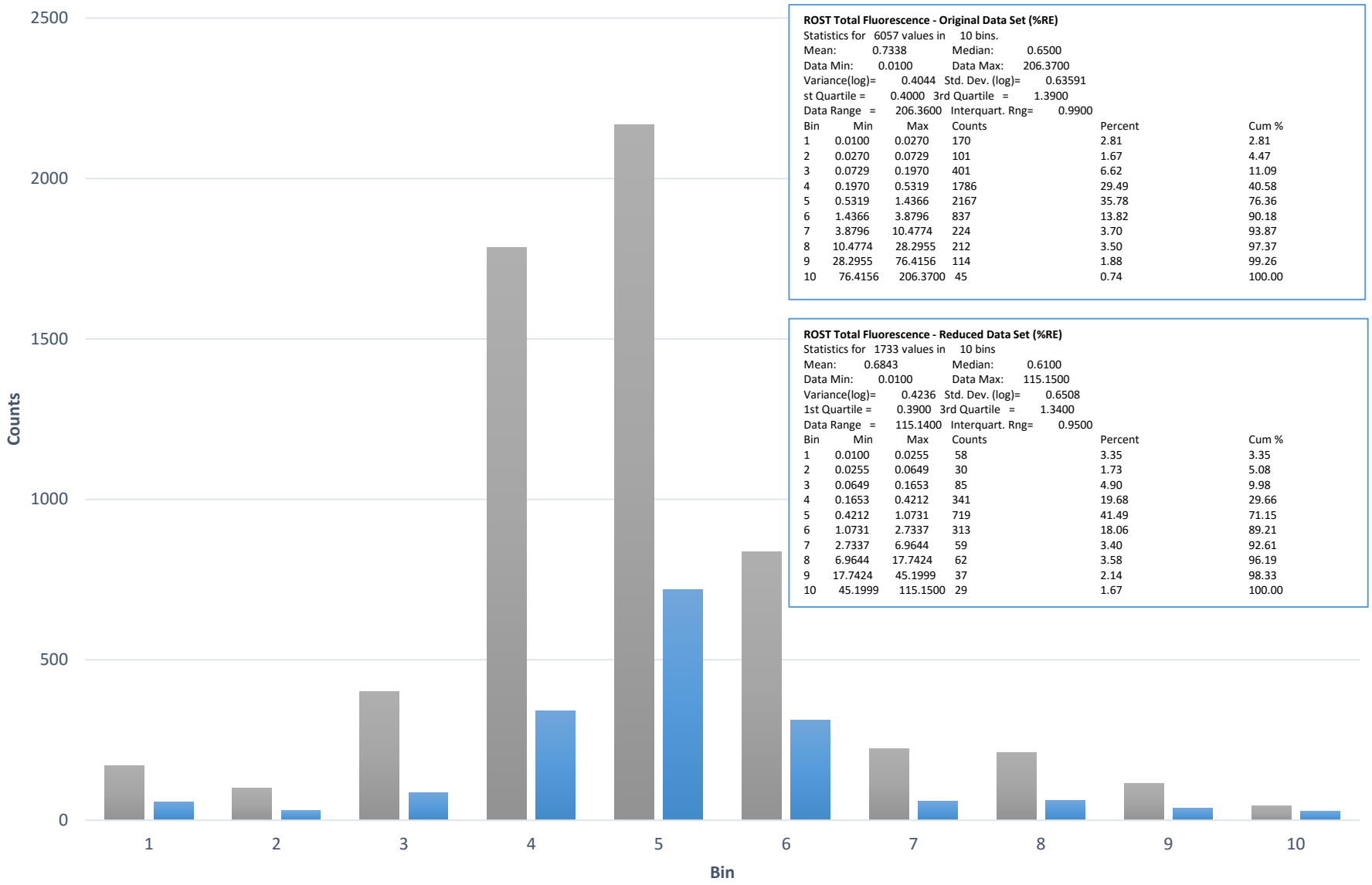
1st Quartile = 0.5600 3rd Quartile = 0.9100

Data Range = 16.4200 Interquart. Rng= 0.3500

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0210	2	0.15	0.15
2	0.0210	0.0440	0	0.00	0.15
3	0.0440	0.0922	2	0.15	0.30
4	0.0922	0.1933	56	4.13	4.43
5	0.1933	0.4053	186	13.73	18.15
6	0.4053	0.8499	692	51.07	69.23
7	0.8499	1.7822	352	25.98	95.20
8	1.7822	3.7369	36	2.66	97.86
9	3.7369	7.8356	20	1.48	99.34
10	7.8356	16.4300	9	0.66	100.00

014856

ROST Fluorescence - Tank Farms 11 & 12



ROST Total Fluorescence - Original Data Set (%RE)

Statistics for 6057 values in 10 bins.
Mean: 0.7338 Median: 0.6500
Data Min: 0.0100 Data Max: 206.3700
Variance(log)= 0.4044 Std. Dev. (log)= 0.63591
st Quartile = 0.4000 3rd Quartile = 1.3900
Data Range = 206.3600 Interquart. Rng= 0.9900

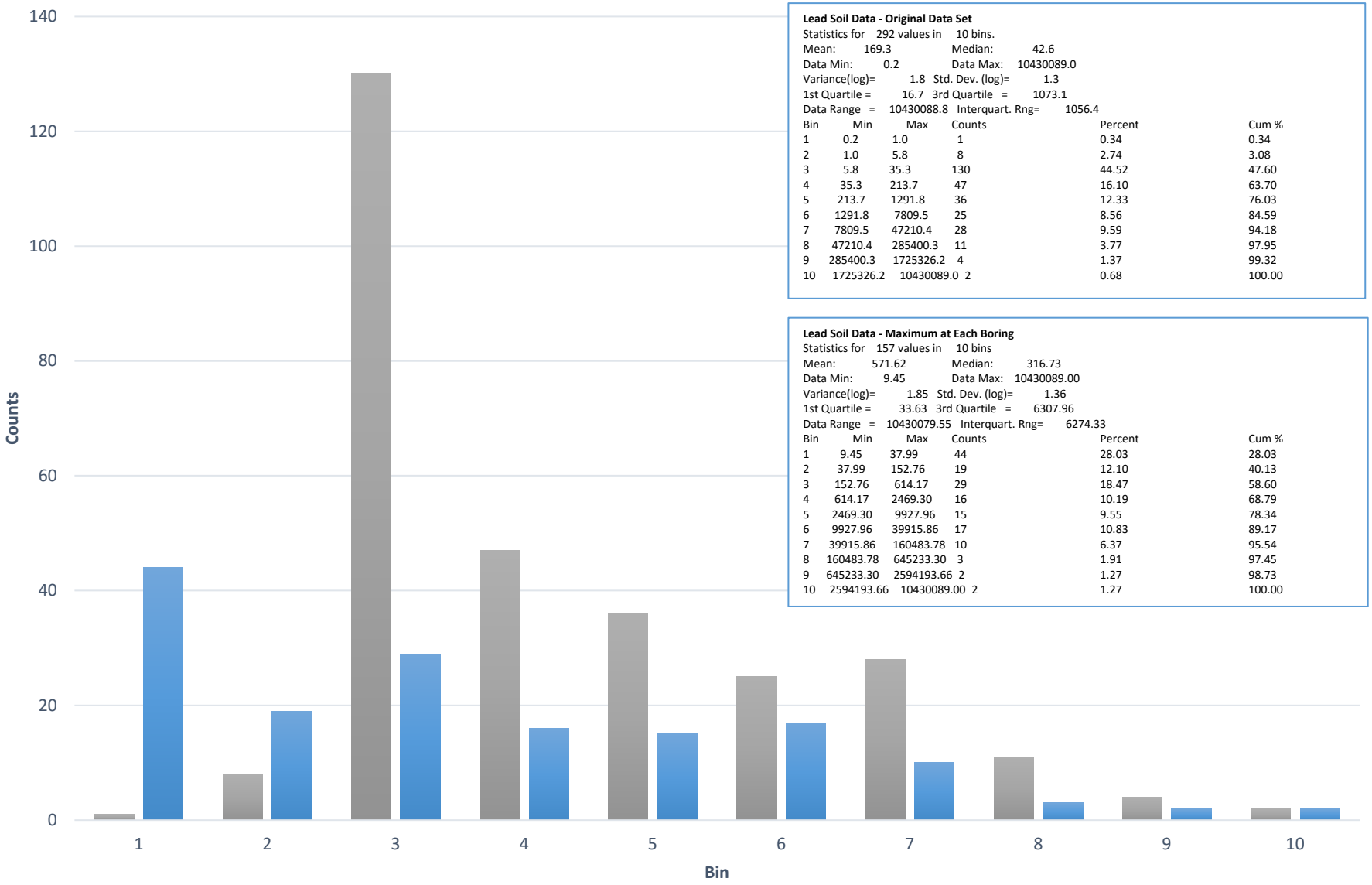
Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0270	170	2.81	2.81
2	0.0270	0.0729	101	1.67	4.47
3	0.0729	0.1970	401	6.62	11.09
4	0.1970	0.5319	1786	29.49	40.58
5	0.5319	1.4366	2167	35.78	76.36
6	1.4366	3.8796	837	13.82	90.18
7	3.8796	10.4774	224	3.70	93.87
8	10.4774	28.2955	212	3.50	97.37
9	28.2955	76.4156	114	1.88	99.26
10	76.4156	206.3700	45	0.74	100.00

ROST Total Fluorescence - Reduced Data Set (%RE)

Statistics for 1733 values in 10 bins
Mean: 0.6843 Median: 0.6100
Data Min: 0.0100 Data Max: 115.1500
Variance(log)= 0.4236 Std. Dev. (log)= 0.6508
1st Quartile = 0.3900 3rd Quartile = 1.3400
Data Range = 115.1400 Interquart. Rng= 0.9500

Bin	Min	Max	Counts	Percent	Cum %
1	0.0100	0.0255	58	3.35	3.35
2	0.0255	0.0649	30	1.73	5.08
3	0.0649	0.1653	85	4.90	9.98
4	0.1653	0.4212	341	19.68	29.66
5	0.4212	1.0731	719	41.49	71.15
6	1.0731	2.7337	313	18.06	89.21
7	2.7337	6.9644	59	3.40	92.61
8	6.9644	17.7424	62	3.58	96.19
9	17.7424	45.1999	37	2.14	98.33
10	45.1999	115.1500	29	1.67	100.00

Lead Soil Data - Site Wide



Lead Soil Data - Original Data Set

Statistics for 292 values in 10 bins.
Mean: 169.3 Median: 42.6
Data Min: 0.2 Data Max: 10430089.0
Variance(log)= 1.8 Std. Dev. (log)= 1.3
1st Quartile = 16.7 3rd Quartile = 1073.1
Data Range = 10430088.8 Interquart. Rng= 1056.4

Bin	Min	Max	Counts	Percent	Cum %
1	0.2	1.0	1	0.34	0.34
2	1.0	5.8	8	2.74	3.08
3	5.8	35.3	130	44.52	47.60
4	35.3	213.7	47	16.10	63.70
5	213.7	1291.8	36	12.33	76.03
6	1291.8	7809.5	25	8.56	84.59
7	7809.5	47210.4	28	9.59	94.18
8	47210.4	285400.3	11	3.77	97.95
9	285400.3	1725326.2	4	1.37	99.32
10	1725326.2	10430089.0	2	0.68	100.00

Lead Soil Data - Maximum at Each Boring

Statistics for 157 values in 10 bins
Mean: 571.62 Median: 316.73
Data Min: 9.45 Data Max: 10430089.00
Variance(log)= 1.85 Std. Dev. (log)= 1.36
1st Quartile = 33.63 3rd Quartile = 6307.96
Data Range = 10430079.55 Interquart. Rng= 6274.33

Bin	Min	Max	Counts	Percent	Cum %
1	9.45	37.99	44	28.03	28.03
2	37.99	152.76	19	12.10	40.13
3	152.76	614.17	29	18.47	58.60
4	614.17	2469.30	16	10.19	68.79
5	2469.30	9927.96	15	9.55	78.34
6	9927.96	39915.86	17	10.83	89.17
7	39915.86	160483.78	10	6.37	95.54
8	160483.78	645233.30	3	1.91	97.45
9	645233.30	2594193.66	2	1.27	98.73
10	2594193.66	10430089.00	2	1.27	100.00

Attachment 2

Final Data Files

```
#Revised Topography based on 3D analysis of points.  Elevations were biased to boring elevations when coincident.
Surface 0 "Topography"
2447742.68  310149.458  789.095 TF-11-05
2447696.546 310191.777  788.751 TF-11-02
2447758.734 310103.019  787.952 TF-11-07
2447722.759 310222.789  788.668 TF-11-01
2447777.953 310078.34   788.054 TF-11-10
2447731.22  310194.651  788.576 TF-11-03
2447756.872 310553.148  789.279 WIL-60
2447121.565 309795.801  782.098 WIL-68
2447767.531 310589.97   790.54  WIL-59
2447873.211 309600.034  781.991 P-03-02
2447785.755 310619.399  797.973 WIL-58
2447893.155 309672.589  783.458 P-03-01
2447281.584 309687.898  781.414 WIL-66
2447318.905 309717.207  779.58  WIL-67
2446895.633 309811.408  782.47  WIL-71
2446937.055 309815.094  782.049 WIL-70
2447096.461 309770.247  781.305 WIL-69
2447664.092 310635.827  787.86  WIL-53
2447252.219 309732.996  780.874 WIL-65
2447048.321 309784.881  783.312 WIL-72
2447706.787 310119.927  788.326 TF-11-06
2447726.446 310072.929  788.284 TF-11-09
2446785.859 310717.156  803.382 LOR-35
2447682.167 310671.867  802.011 WIL-54
2447751.611 310448.289  789.364 WIL-62
2449761.494 309614.794  787.14  TF-03-10
2447650.319 310554.047  791.539 WIL-55
2447032.819 309742.185  781.883 WIL-73
2447589.432 310527.067  792.305 WIL-40
2447481.707 310369.504  791.157 WIL-36
2447453.392 310290.666  789.677 WIL-34
2447032.52  309968.117  783.728 WIL-17
2448115.471 309507.022  783.391 P-03-06
2447597.622 310575.126  791.044 WIL-51
2447616.927 310468.932  788.821 WIL-64
2447091.815 309977.165  784.799 WIL-18
2447443.715 310334.832  790.81  WIL-33
2447584.429 310415.275  789.472 WIL-37
2448117.2   309584.172  783.047 P-03-05
2448002.862 309480.231  783.002 P-03-04
2446678.778 310771.007  792.673 LOR-33
2447776.968 310189.774  789.136 TF-11-04
2447138.389 310453.977  796.078 WIL-05
2448235.409 309561.75   784.518 P-03-08
2449696.033 309627.496  787.851 TF-03-07
2446627.747 310772.261  796.332 LOR-32
2448228.89  309502.423  784.214 P-03-09
2446946.578 310678.781  806.332 LOR-03
2447612.927 309534.511  782.424 TF-12-05
2446970.606 309978.32   783.93  WIL-16
2447648.352 309542.994  781.299 TF-12-07
2448104.506 310604.818  814.234 TF-07-10
2449537.201 310623.423  825.374 TF-05-07
2446565.676 310779.459  792.882 LOR-18
2448154.285 310608.564  815.339 TF-07-07
2447444.964 310482.483  793.336 WIL-39
2447590.958 309558.045  782.149 TF-12-02
2448140.619 310662.398  814.131 TF-07-09
2446947.957 310561.926  807.46  LOR-13
2447513.562 310278.396  793.355 WIL-35
2447996.487 309594.067  782.204 P-03-03
2447711.866 310585.081  789.295 WIL-57
2446955.831 310215.752  788.605 WIL-10
2447352.964 310507.65   795.364 WIL-43
2446728.121 310656.546  803.129 LOR-08
2447109.983 310289.823  790.725 WIL-24
2446921.355 310763.425  807.721 LOR-01
2449708.299 309585.394  787.327 TF-03-09
2447482.268 310434.131  791.158 WIL-38
2447625.239 309578.547  783.03  TF-12-03
2447433.68  310472.897  793.982 WIL-49
2446825.28  310674.835  805.994 LOR-07
2447659.817 309574.514  781.215 TF-12-04
2446948.055 310181.68   786.529 WIL-11
2447169.563 310241.085  792.419 WIL-23
2447654.54  309609.122  781.505 TF-12-01
2447610.795 310643.819  791.54  WIL-52
2449539.842 310560.41   824.842 TF-05-08
2447638.611 310510.047  792.258 WIL-41
2449272.031 309995.311  825.291 TF-08-09
2446646.576 310700.646  797.299 LOR-34
2448216.544 309655.356  785.438 P-03-07
2449652.836 309632.924  787.874 TF-03-05
2448186.086 310697.214  814.277 TF-07-08
2446825.173 310759.47   801.033 LOR-05
2446913.87  310146.047  784.331 WIL-12
2449564.107 310637.623  824.954 TF-05-10
2446869.481 310045.617  783.673 WIL-14
2447375.689 310409.04   794.521 WIL-29
2447694.944 310004.18   786.365 WIL-P1-01
2447654.147 309502.983  781.44  TF-12-10
2447282.462 310264.308  794.813 WIL-31
2447273.739 310352.885  795.3   WIL-27
2449571.202 310585.414  824.219 TF-05-09
2447418.825 310543.052  798.704 WIL-30
2446751.448 310762.021  801.59  LOR-12
2446646.415 310337.741  787.929 LOR-25A
2446920.467 310013.691  782.732 WIL-15
2447594.94  309515.641  783.726 TF-12-06
2446668.576 310458.889  790.487 LOR-30
```

```
2447446.082 310618.401  798.744 WIL-45
2447044.157 310311.125  791.066 WIL-08
2446815.77  310830.037  802.995 LOR-06
2447569.846 309832.846  786.896 WIL-P2-03
2447349.566 310368.679  796.291 WIL-28
2447025.36  310363.235  793.68  WIL-25
2447611.566 309770.482  786.133 WIL-P2-04
2446683.141 310870.26   800.752 LOR-15
2447612.887 309495.37   781.214 TF-12-09
2447154.859 310099.07   789.248 WIL-21
2446876.427 310093.162  783.32  WIL-13
2446761.692 310839.185  801.048 LOR-14
2447495.239 310597.871  797.262 WIL-46
2446825.643 310477.594  804.878 LOR-11
2449667.169 309699.224  788.894 TF-03-04
2447151.884 310048.513  787.501 WIL-20
2446734.113 310451.175  793.073 LOR-29
2446727.28  310572.316  803.347 LOR-09
2447406.588 310372.163  793.234 WIL-32
2447005.124 310274.81   790.778 WIL-09A
2447573.86  309499.632  781.932 TF-12-08
2447543.734 310599.238  797.04  WIL-47
2447567.442 310652.069  798.647 WIL-48
2446760.881 310365.59   799.213 LOR-27
2446575.823 310531.904  788.199 LOR-21
2447159.974 309974.824  785.722 WIL-19
2446821.979 310559.633  804.968 LOR-10
2449644.077 309587.3    787.747 TF-03-06
2447017.554 310662.518  805.629 LOR-04
2449497.44  310596.589  826.032 TF-05-05
2446587.046 310682.277  798.24  LOR-19
2447663.423 309856.006  783.25  WIL-P2-02
2448789.248 310252.764  827.035 P-04-01
2447013.429 310749.079  809.271 LOR-02
2446574.368 310447.911  786.444 LOR-22
2448785.03  309540.084  799.272 TF-09-09
2449187.01  310119.442  827.119 TF-08-01
2448201.885 310616.565  816.115 TF-07-05
2448778.715 310569.445  831.771 TF-06-05
2447512.883 310535.233  790.97  WIL-50
2449485.786 310562.695  826.074 TF-05-06
2446568.5   310613.769  787.911 LOR-20
2448813.456 309568.226  800.241 TF-09-07
2448317.917 309925.765  803.598 TF-10-09
2446804.413 310414.139  796.615 LOR-28
2448391.358 309921.771  802.121 TF-10-06
2448790.959 310168.101  815.368 P-04-03
2448769.037 310213.731  816.651 P-04-02
2449233.435 310046.093  826.242 TF-08-05
2447723.791 309866.774  796.89  WIL-P2-01
2447688.346 310508.379  789.597 WIL-56
2448319.104 309952.357  801.576 TF-10-07
2449621.488 309562.523  787.944 TF-03-08
2447202.826 310536.216  800.411 WIL-04
2448761.882 310481.101  827 TF-06-10
2446708.344 310301.379  784.049 LOR-26
2447205.878 310170.998  793.036 WIL-22
2449024.983 310175.384  828.956 P-04-06
#2448793.611    310632.835  827.347 TF-06-02    Removed anaomalous elevations
2447194.188 310331.792  794.861 WIL-26
2448145.458 309891.448  795.259 TF-10-03
2448795.829 309706.976  801.897 TF-09-01
2447659.502 310100.698  787.784 TF-11-08
2446612.674 310885.096  795.055 LOR-16
2447142.591 310378.516  792.476 WIL-06
2448243.58  309965.418  795.55  TF-10-08
2448243.299 309816.678  796.109 TF-10-04
2447303.637 310545.738  799.595 WIL-44
2447105.008 310337.706  790.16  WIL-07
2448154.647 310040.177  798.121 TF-10-02
2448204.371 310099.857  800.292 TF-10-01
2448740.107 309556.771  798.242 TF-09-08
2449455.491 310659.55   828.42  TF-05-04
2448798.306 309603.061  801.696 TF-09-05
2446568.145 310857.159  793.92  LOR-17
2447570.28  309966.71   788.972 WIL-P1-02
2447243.61  310590.84   803.208 WIL-03A
2448792.882 309657.54   801.6       #previous values changed based on surrounding points
2448772.112 309585.383  801.458 TF-09-06
2447243.61  310590.84   803.208 WIL-03
2448186.415 310557.91   816.691 TF-07-04
2448738.891 309660.904  801.663 TF-09-02
2448189.071 310652.395  814.927 TF-07-06
2448779.633 310518.325  830.879 TF-06-07
2446582.622 310345.217  785.01  LOR-24
2449591.975 309630.573  788.128 TF-03-02
2449446.896 310577.484  826.538 TF-05-02
2448224.305 310577.395  816.653 TF-07-03
2449207.361 310080.222  826.134 TF-08-03
2448442.603 310266.542  815.258 TF-13-01
2447006.457 310277.044  789.665 WIL-09
2449618.667 309656.945  787.933 TF-03-03
2448267.232 310552.921  817.557 TF-07-01
2448402.145 309828.871  797.771 TF-10-05
2446645.911 310383.212  787.826 LOR-31
2447321.025 310672.495  808.299 WIL-01
2449451.249 310614.238  828.223 TF-05-03
2447706.322 310428.054  788.85  WIL-63
2448252.266 310620.985  817.139 TF-07-02
2448462.676 310237.875  815.635 TF-13-02
2446643.512 310327.549  788.111 LOR-25
2447201.406 309770.65   780 WIL-XRF-36  #Changed to 780 from 761.071
```

2447964.226	309561.007	771.282	P3-XRF-01
2447391.084	309737.219	771.72	CR-XRF-107
2447241.433	309657.966	772.195	CR-XRF-101
2447384.338	309782.234	772.257	CR-XRF-104
2447426.006	309769.691	772.787	CR-XRF-102
2447397.876	309718.402	773.284	CR-XRF-108
2447936.971	309548.375	773.803	P3-XRF-03
2447377.507	309782.08	774.897	CR-XRF-105
2447242.734	309664.642	775.112	CR-XRF-100
2447879.086	309563.677	775.758	P3-XRF-07
2447426.287	309758.987	775.763	CR-XRF-103
2447459.286	309871.642	777.121	WIL-XRF-58
2447372.155	309785.623	777.368	CR-XRF-106
2447941.698	309527.55	777.387	P3-XRF-05
2447941.291	309556.788	777.42	P3-XRF-02
2447232.409	309825.743	777.509	WIL-XRF-38
2447295.114	309766.885	777.984	WIL-XRF-32
2447968.853	309515.641	778.315	P3-XRF-06
2447841.45	309511.338	778.801	P3-XRF-09
2447408.439	309994.124	779.062	WIL-XRF-53
2447938.31	309544.491	779.281	P3-XRF-04
2447337.1	309761.035	779.341	WIL-XRF-31
2447342.355	310020.697	779.66	WIL-XRF-46
2447851.372	309527.709	779.776	P3-XRF-08
2447338.014	309854.824	779.862	WIL-XRF-29
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447250.76	309719.591	779.915	TF-34-01
2447329.368	309721.881	779.953	WIL-XRF-33
2447175.073	309872.145	780.129	WIL-XRF-39
2447379.521	309917.036	780.276	WIL-XRF-55
2447227.73	309774.481	780.442	WIL-XRF-37
2447196.529	310009.13	780.517	WIL-XRF-43
2447370.225	309871.739	780.942	WIL-XRF-56
2447223.87	309906.044	781.016	WIL-XRF-41
2447354.98	309894.525	781.248	WIL-XRF-28
2447654.54	309609.122	781.505	TF-12-01
2447199.544	309915.837	781.571	WIL-XRF-40
2447275.655	309769.542	781.587	WIL-XRF-18
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447275.97	309771.133	781.599	AA-GW-03
2447271.622	309784.726	781.641	WIL-XRF-19
2447303.698	309676.473	781.656	WIL-XRF-34
2447254.234	309781.378	781.875	WIL-XRF-20
2447296.217	309844.836	781.97	WIL-XRF-13
2447315.836	309843.704	782.044	WIL-XRF-14
2447159.03	310023.006	782.09	WIL-XRF-42
2447302.711	309865.198	782.122	WIL-XRF-17
2447480.939	309933.252	782.147	WIL-XRF-57
2447285.362	309892.172	782.217	WIL-XRF-11
2447271.765	309868.468	782.225	WIL-XRF-07
2447265.995	309854.528	782.26	WIL-XRF-05
2447277.548	309852.315	782.3	WIL-XRF-06
2447277.548	309852.315	782.3	WIL-XRF-06
2447277.548	309852.315	782.3	WIL-XRF-06
2447277.548	309852.315	782.3	WIL-XRF-06
2447327.64	309880.577	782.317	WIL-XRF-15
2447612.927	309534.511	782.424	TF-12-05
2447278.809	309903.418	782.481	WIL-XRF-10
2447289.455	309868.042	782.569	WIL-XRF-12
2447257.048	309867.225	782.586	WIL-XRF-04
2447268.284	309890.937	782.699	WIL-XRF-08
2447306.198	310105.674	782.776	WIL-XRF-48
2447301.539	309891.534	782.831	WIL-XRF-16
2447361.465	309932.854	782.922	WIL-XRF-47
2447249.531	309889.107	783.08	WIL-XRF-03
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447250.354	309896.073	783.302	WIL-AA-01
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447243.223	309908.476	783.461	WIL-AA-11
2447241.014	309903.76	783.508	WIL-XRF-02
2447241.014	309903.76	783.508	WIL-XRF-02
2447241.014	309903.76	783.508	WIL-XRF-02
2447241.014	309903.76	783.508	WIL-XRF-02
2447241.014	309903.76	783.508	WIL-XRF-02
2447241.014	309903.76	783.508	WIL-XRF-02
2447237.982	309909.608	783.585	WIL-XRF-01
2446869.481	310045.617	783.673	WIL-14
2447594.94	309515.641	783.726	TF-12-06

```
2447359.488 310015.808  783.919 WIL-XRF-50
2447305.852 309923.806  783.99  WIL-XRF-62
2447259.714 309908.599  784.002 WIL-XRF-09
2447390.953 310002.768  784.343 WIL-XRF-52
2447377.82  309928.914  784.583 WIL-XRF-54
2447135.09  309930.138  784.62  WIL-XRF-25
2447261.091 309943.091  784.738 WIL-XRF-60
2447300.95  309952.615  784.748 WIL-XRF-63
2447238.31  309972.605  784.755 WIL-XRF-59
2447278.08  309937.313  784.875 WIL-XRF-61
2447203.619 309730.062  780 WIL-XRF-35   #Changed to 780 from 785.11
2447277.498 309978.686  785.069 WIL-XRF-64
2447314.693 310002.297  785.089 WIL-XRF-72
2447221.389 309987.84   785.144 WIL-XRF-22
2447145.199 309972.678  785.249 WIL-XRF-24
2447343.05  309959.498  785.461 WIL-XRF-73
2447310.573 310084.202  785.485 WIL-XRF-45
2447006.698 309958.954  785.494 WIL-XRF-26
2447267.329 310002.31   785.51  WIL-XRF-74
2447240.268 310003.276  785.638 WIL-XRF-23
2447295.861 310008.223  785.668 WIL-XRF-75
2447000.51  310269.638  785.994 WIL-XRF2-24
2447267.353 310028.681  786.236 WIL-XRF-65
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447220.042 310007.022  786.28  WIL-AA-10
2447219.673 310007.331  786.55  WIL-XRF-21
2447341.286 310110.474  786.608 WIL-XRF-49
2447216.952 310037.591  787.282 WIL-XRF-67
2447295.402 310038.503  787.488 WIL-XRF-71
2447151.884 310048.513  787.501 WIL-20
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2446646.415 310337.741  787.929 LOR-25A
2447368.945 309983.173  788.019 WIL-XRF-51
2447063.696 310321.998  788.152 WIL-XRF2-25
2447283.268 310077.287  788.462 WIL-XRF-70
2447731.22  310194.651  788.576 TF-11-03
2447239.459 310050.417  788.843 WIL-XRF-66
2447742.68  310149.458  789.095 TF-11-05
2447249.886 310076.312  789.202 WIL-XRF-69
2447204.987 310078.37   789.546 WIL-XRF-68
#2447317.909    309795.204  789.636 WIL-XRF-30  Removed anaomalous elevations
2447082.815 310333.125  789.667 WIL-XRF2-23
2447092.708 310342.286  789.78  WIL-XRF2-13
2447036.848 310366.949  790.909 WIL-XRF2-07
2447261.614 310110.438  791.094 WIL-XRF-44
2447638.611 310510.047  792.258 WIL-41
2446565.676 310779.459  792.882 LOR-18
2446565.676 310779.459  792.882 LOR-18
2446565.676 310779.459  792.882 LOR-18
2446565.676 310779.459  792.882 LOR-18
2446565.676 310779.459  792.882 LOR-18
2446565.676 310779.459  792.882 LOR-18
2447114.433 310357.276  792.99  WIL-XRF2-14
2447197.14  310125.583  793.001 WIL-XRF-27
2447059.917 310344.235  793.148 WIL-XRF2-09
2447513.562 310278.396  793.355 WIL-35
2447025.36  310363.235  793.68  WIL-25
2447375.689 310409.04   794.521 WIL-29
2447023.107 310370.73   794.635 WIL-XRF2-06
2447138.389 310453.977  796.078 WIL-05
2447159.221 310524.814  796.083 WIL-XRF2-21
2447114.137 310419.388  796.426 WIL-XRF2-16
2447156.525 310519.293  796.722 WIL-XRF2-22
2447027.893 310376.618  797.926 WIL-XRF2-08
2447127.814 310473.596  798.495 WIL-XRF2-19
2447418.825 310543.052  798.704 WIL-30
2447107.7   310449.342  799.708 WIL-XRF2-17
2447128.372 310383.535  801.445 WIL-XRF2-15
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2446751.448 310762.021  801.59  LOR-12
2447118.651 310443.464  801.614 WIL-XRF2-18
2446815.77  310830.037  802.995 LOR-06
2446815.77  310830.037  802.995 LOR-06
2446815.77  310830.037  802.995 LOR-06
2446815.77  310830.037  802.995 LOR-06
2446815.77  310830.037  802.995 LOR-06
2446815.77  310830.037  802.995 LOR-06
2446727.28  310572.316  803.347 LOR-09
2446727.28  310572.316  803.347 LOR-09
```

```
2446727.28  310572.316  803.347 LOR-09
2446727.28  310572.316  803.347 LOR-09
2446727.28  310572.316  803.347 LOR-09
2447027.378 310388.285  805.191 WIL-XRF2-05
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449229.821 309964.828  823.978 TF-08-08
2449225.707 310011.097  825.23  TF-08-06
2449225.707 310011.097  825.23  TF-08-06
2449225.707 310011.097  825.23  TF-08-06
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449272.031 309995.311  825.291 TF-08-09
2449312.543 310039.142  826.02  TF-08-10
2449312.543 310039.142  826.02  TF-08-10
2449312.543 310039.142  826.02  TF-08-10
2449312.543 310039.142  826.02  TF-08-10
2449312.543 310039.142  826.02  TF-08-10
2449312.543 310039.142  826.02  TF-08-10
2449207.361 310080.222  826.134 TF-08-03
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449233.435 310046.093  826.242 TF-08-05
2449174.529 310050.864  826.294 TF-08-02
2449174.529 310050.864  826.294 TF-08-02
2449174.529 310050.864  826.294 TF-08-02
2449174.529 310050.864  826.294 TF-08-02
2449174.529 310050.864  826.294 TF-08-02
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2449273.222 310036.08   826.363 TF-08-07
2448845.486 310144.575  826.516 P-04-04
2448963.474 310150.425  826.997 P-04-05
2448761.882 310481.101  827 TF-06-10
2448761.882 310481.101  827 TF-06-10
2448761.882 310481.101  827 TF-06-10
2448789.248 310252.764  827.035 P-04-01
2448789.248 310252.764  827.035 P-04-01
2448789.248 310252.764  827.035 P-04-01
2449187.01  310119.442  827.119 TF-08-01
2449187.01  310119.442  827.119 TF-08-01
2449187.01  310119.442  827.119 TF-08-01
2448793.611 310632.835  827.347 TF-06-02
2448793.611 310632.835  827.347 TF-06-02
2448793.611 310632.835  827.347 TF-06-02
2449251.862 310113.896  827.386 TF-08-04
2449251.862 310113.896  827.386 TF-08-04
2449251.862 310113.896  827.386 TF-08-04
2448712.801 310516.276  827.951 TF-06-09
2448712.801 310516.276  827.951 TF-06-09
2448712.801 310516.276  827.951 TF-06-09
2448712.801 310516.276  827.951 TF-06-09
2448712.801 310516.276  827.951 TF-06-09
2448698.835 310566.712  828.321 TF-06-08
2448698.835 310566.712  828.321 TF-06-08
2448698.835 310566.712  828.321 TF-06-08
2448698.835 310566.712  828.321 TF-06-08
2449024.983 310175.384  828.956 P-04-06
2449024.983 310175.384  828.956 P-04-06
2448738.095 310561.598  829.662 TF-06-06
2448738.095 310561.598  829.662 TF-06-06
2448779.633 310518.325  830.879 TF-06-07
2448778.715 310569.445  831.771 TF-06-05
2448778.715 310569.445  831.771 TF-06-05
2448778.715 310569.445  831.771 TF-06-05
2448778.715 310569.445  831.771 TF-06-05
2448803.548 310606.669  831.895 TF-06-03
2448803.548 310606.669  831.895 TF-06-03
2448803.548 310606.669  831.895 TF-06-03
2448844.144 310638.549  832.117 TF-06-01
2448869.538 310585.44   832.7   TF-06-04
2448869.538 310585.44   832.7   TF-06-04
2446514.146 310079.698  784.328 GPR-1
2446521.748 310023.613  778.708 GPR-10
2448305.741 310710.846  816.656 GPR-10001
2448307.473 310612.286  819.053 GPR-10002
2448315.406 310154.387  803.525 GPR-10004
2448309.746 310513.334  818.558 GPR-10006
2448321.849 309796.472  796.57  GPR-10008
2446590.333 310518.388  795.201 GPR-1001
2448320.369 309997.194  802.743 GPR-10012
2448327.727 309577.294  788.273 GPR-10016
2448318.447 310149.778  803.425 GPR-10018
2446594.16  310291.603  787.939 GPR-1002
2448309.68  310703.922  817.22  GPR-10021
```

2448316.309	310322.419	811.105	GPR-10024
2448311.996	310604.17	819.258	GPR-10030
2448315.055	310507.853	818.819	GPR-10037
2448324.172	309991.323	801.765	GPR-10038
2448321.884	310144.52	803.382	GPR-10039
2446593.079	310370.951	789.461	GPR-1004
2448331.605	309570.514	788.339	GPR-10040
2448328.599	309782.787	796.084	GPR-10042
2448315.363	310597.782	819.313	GPR-10043
2448321.436	310315.368	811.071	GPR-10048
2448324.597	310140.051	802.904	GPR-10051
2448335.169	309564.748	788.097	GPR-10058
2448326.368	310136.986	802.514	GPR-10063
2448320.536	310500.918	818.782	GPR-10065
2448319.039	310590.671	819.08	GPR-10066
2448329.204	309986.455	801.891	GPR-10067
2448324.404	310309.848	810.673	GPR-10071
2448333.476	309774.75	795.577	GPR-10072
2448333.78	309774.281	795.57	GPR-10075
2448319.977	310687.274	818.141	GPR-10079
2448338.853	309558.985	787.925	GPR-10080
2448322.088	310585.589	819.141	GPR-10082
2448327.589	310303.712	810.631	GPR-10084
2448336.518	309770.104	795.522	GPR-10085
2448330.624	310130.613	802.523	GPR-10086
2448324.443	310581.259	819.261	GPR-10090
2448341.626	309554.444	788.07	GPR-10091
2448334.796	309981.779	802.044	GPR-10094
2448338.694	309765.808	795.348	GPR-10096
2448326.837	310492.758	818.681	GPR-10100
2448334.388	310123.54	802.43	GPR-10106
2448328.29	310490.962	818.649	GPR-10107
2448344.067	309550.298	788.002	GPR-10109
2448325.413	310675.933	818.7	GPR-10110
2448341.126	309760.387	795.085	GPR-10111
2448327.751	310574.834	819.309	GPR-10112
2448332.617	310295.495	810.617	GPR-10113
2448338.457	309977.326	802.589	GPR-10117
2446588.427	310722.306	789.595	GPR-1012
2448347.123	309544.778	787.909	GPR-10122
2448331.705	310485.267	818.373	GPR-10123
2448330.462	310570.51	819.731	GPR-10125
2448344.384	309755.236	794.908	GPR-10126
2448342.019	309973.49	802.636	GPR-10129
2446591.545	310547.133	800.353	GPR-1013
2448340.174	310114.316	801.942	GPR-10131
2448350.116	309539.513	787.801	GPR-10133
2448334.307	310563.876	820.051	GPR-10134
2448348.846	309745.407	794.002	GPR-10136
2448345.489	309969.798	802.777	GPR-10138
2448353.472	309533.78	787.678	GPR-10142
2448341.435	310282.208	811.323	GPR-10143
2448338.227	310474.599	818.174	GPR-10144
2448355.464	309529.918	787.553	GPR-10147
2448355.562	309529.337	787.314	GPR-10149
2448355.622	309529.338	787.431	GPR-10151
2448338.741	310555.722	819.81	GPR-10153
2448346.474	310106.266	801.448	GPR-10154
2446592.474	310517.951	795.36	GPR-1016
2448354.238	309734.976	793.981	GPR-10163
2448350.811	309963.552	802.858	GPR-10165
2448355.456	309733.03	794.013	GPR-10168
2448359.072	309523.316	786.568	GPR-10169
2448340.366	310655.612	819.419	GPR-10171
2448342.564	310548.686	819.543	GPR-10173
2446588.716	310751.29	791.241	GPR-1018
2448358.074	309728.923	793.792	GPR-10181
2448349.402	310270.217	811.948	GPR-10184
2448358.773	309727.879	793.784	GPR-10185
2448355.398	309958.677	802.855	GPR-10186
2448363.06	309517.011	786.452	GPR-10188
2448353.488	310096.335	800.955	GPR-10189
2448346.35	310542.087	819.816	GPR-10190
2448347.906	310459.47	817.591	GPR-10192
2448361.644	309722.794	793.604	GPR-10198
2448366.291	309511.713	786.236	GPR-10200
2448349.244	310537.402	819.587	GPR-10201
2448363.614	309718.458	793.506	GPR-10205
2448348.434	310642.859	819.949	GPR-10206
2448354.884	310261.426	812.171	GPR-10207
2446588.418	310781.685	793.563	GPR-1021
2448361.033	309953.164	803.132	GPR-10210
2448351.808	310533.004	819.574	GPR-10213
2448359.409	310087.914	800.538	GPR-10214
2448365.82	309714.126	793.255	GPR-10215
2448369.932	309506.677	786.066	GPR-10218
2448354.074	310528.636	819.352	GPR-10220
2448354.105	310528.564	819.356	GPR-10221
2448359.626	310254.369	812.256	GPR-10224
2448356.659	310446.51	818.032	GPR-10226
2448365.095	309949.592	803.387	GPR-10227
2448369.54	309707.926	792.78	GPR-10229
2448364.327	310080.934	800.191	GPR-10232
2448372.081	309703.126	792.672	GPR-10237
2448362.203	310437.61	817.711	GPR-10243
2448371.04	309943.247	803.539	GPR-10245
2448375.526	309697.432	792.343	GPR-10246
2448366.51	310243.343	812.543	GPR-10247
2448370.242	310071.13	799.759	GPR-10251
2448377.298	309694.257	792.491	GPR-10252
2448377.92	309692.484	792.466	GPR-10255
2448362.975	310620.602	820.264	GPR-10259

2446589.017	310779.547	792.424	GPR-1026
2448382.47	309485.443	784.656	GPR-10261
2448366.952	310430.116	817.861	GPR-10262
2448375.641	309937.571	803.797	GPR-10264
2448380.956	309686.455	792.399	GPR-10266
2448375.226	310063.749	799.324	GPR-10269
2446595.852	310370.014	789.566	GPR-1027
2448385.147	309481.337	784.751	GPR-10270
2448378.36	309934.522	804.017	GPR-10273
2448371.793	310422.479	817.825	GPR-10277
2448388.714	309475.426	784.633	GPR-10279
2446590.959	310682.301	797.24	GPR-1028
2448385.809	309678.089	792.18	GPR-10281
2448381.627	309930.572	804.43	GPR-10282
2448370.953	310607.884	820.781	GPR-10284
2448377.429	310226.742	813.351	GPR-10285
2448375.628	310416.427	817.465	GPR-10289
2448391.441	309471.904	784.668	GPR-10290
2448385.101	309862.695	801.386	GPR-10292
2448391.869	309471.146	784.78	GPR-10293
2448388.668	309671.948	791.983	GPR-10295
2448385.656	309875.665	802.525	GPR-10299
2448382.821	310050.952	800.508	GPR-10300
2448389.465	309670.359	791.994	GPR-10302
2448393.32	309469.459	785.79	GPR-10307
2448374.715	310597.388	821.091	GPR-10310
2448386.06	309926.058	804.019	GPR-10312
2448387.963	309849.309	800.543	GPR-10314
2448378.627	310410.834	817.147	GPR-10315
2448391.683	309665.336	791.889	GPR-10320
2448396.154	309464.81	786.894	GPR-10325
2448393.327	309662.778	791.867	GPR-10328
2448389.862	309890.043	803.562	GPR-10329
2446595.002	310480.021	794.652	GPR-1034
2448395.171	309658.841	791.451	GPR-10341
2448383.019	310403.444	817.337	GPR-10344
2448399.051	309459.98	786.823	GPR-10348
2448400.636	309457.349	786.729	GPR-10355
2448397.355	309654.108	791.411	GPR-10356
2448390.964	310037.29	803.293	GPR-10357
2446598.43	310291.528	790.886	GPR-1036
2448394.878	309834.57	799.36	GPR-10362
2448388.623	310209.599	813.928	GPR-10363
2448401.453	309456.379	786.619	GPR-10364
2448401.483	309456.343	786.588	GPR-10368
2448394.192	309916.619	804.043	GPR-10370
2448394.761	309903.814	803.906	GPR-10371
2448386.963	310396.228	817.237	GPR-10374
2448384.247	310580.4	821.596	GPR-10377
2448399.87	309649.053	791.525	GPR-10378
2448399.356	309825.58	798.422	GPR-10383
2446588.625	310890.544	794.665	GPR-1039
2448395.127	310198.24	814.522	GPR-10392
2448398.495	310021.178	806.883	GPR-10395
2448392.545	310386.783	817.012	GPR-10396
2448405.751	309637.719	791.151	GPR-10397
2448394.17	310383.569	816.742	GPR-10399
2448408.313	309631.609	790.851	GPR-10401
2448392.867	310568.347	821.82	GPR-10404
2448403.352	310010.81	809.192	GPR-10406
2448397.289	310377.869	816.697	GPR-10407
2446597.374	310369.348	789.597	GPR-1041
2448411.379	309625.508	790.628	GPR-10416
2448409.346	309811.366	798.073	GPR-10419
2446589.363	310853.24	794.233	GPR-1042
2448401.681	310370.479	816.625	GPR-10421
2448407.9	310001.129	811.356	GPR-10422
2448398.835	310558.836	821.46	GPR-10423
2448415.189	309619.237	790.395	GPR-10426
2448404.184	310366.116	816.436	GPR-10433
2448417.218	309614.902	790.152	GPR-10435
2448408.166	310178.907	815.814	GPR-10437
2448415.271	309802.727	798.617	GPR-10440
2448419.236	309609.401	790.049	GPR-10443
2448408.209	310359.411	816.469	GPR-10449
2446595.151	310517.413	795.41	GPR-1045
2448414.493	309989.771	811.42	GPR-10451
2448405.628	310547.881	821.41	GPR-10455
2446594.369	310566.257	797.329	GPR-1046
2448422.77	309601.924	789.913	GPR-10461
2448413.454	310169.347	816.088	GPR-10462
2448413.081	310351.665	817.016	GPR-10474
2448425.747	309595.858	789.736	GPR-10475
2448423.414	309789.065	799.253	GPR-10482
2448418.005	310161.341	816.358	GPR-10486
2448424.299	309787.514	799.269	GPR-10487
2446593.827	310609.572	797.169	GPR-1049
2448427.845	309590.905	789.619	GPR-10492
2448420.088	310157.262	816.306	GPR-10499
2448418.2	310343.304	817.165	GPR-10505
2448431.113	309585.171	789.362	GPR-10506
2448415.47	310531.881	820.727	GPR-10508
2448427.084	309972.433	806.847	GPR-10517
2448424.185	310149.794	815.678	GPR-10518
2446599.327	310303.594	790.829	GPR-1052
2448421.401	310338.042	816.878	GPR-10522
2448435.883	309576.44	789.287	GPR-10525
2448421.956	310519.793	820.338	GPR-10529
2448435.148	309769.783	798.143	GPR-10531
2448431.971	309963.813	806.294	GPR-10532
2448426.947	310328.96	816.574	GPR-10537
2448440.974	309566.258	789.182	GPR-10540

2448434.081	310134.122	815.428	GPR-10546
2448437.285	309954.436	805.693	GPR-10547
2448431.238	310322.333	816.074	GPR-10548
2448428.189	310512.215	820.287	GPR-10549
2448440.758	309760.484	798.046	GPR-10550
2448444.791	309557.766	788.773	GPR-10552
2448444.391	309754.137	797.698	GPR-10559
2448441.593	309946.754	805.202	GPR-10560
2448432.823	310504.538	820.173	GPR-10562
2448448.824	309550.589	788.543	GPR-10563
2448436.702	310314.633	815.972	GPR-10565
2448440.142	310124.393	814.835	GPR-10566
2448446.638	309750.97	797.455	GPR-10568
2448452.069	309544.454	788.611	GPR-10572
2448436.345	310497.752	820.173	GPR-10573
2448448.923	309747.259	797.255	GPR-10574
2448451.848	309742.502	797.34	GPR-10583
2448449.16	309935.667	803.414	GPR-10585
2448457.136	309533.871	788.531	GPR-10588
2446590.465	310852.93	794.316	GPR-1059
2448445.314	310301.27	816.293	GPR-10591
2448448.632	310111.21	814.583	GPR-10594
2448455.038	309737.895	797.399	GPR-10596
2448443.895	310487.648	819.506	GPR-10599
2446591.201	310810.42	794.476	GPR-1060
2448457.104	309734.835	797.285	GPR-10601
2448460.796	309525.959	788.205	GPR-10602
2448459.36	309731.123	797.012	GPR-10611
2448461.218	309728.168	796.942	GPR-10621
2448464.86	309518.673	788.211	GPR-10623
2448458.419	309920.785	802.475	GPR-10625
2448456.498	310098.199	814.278	GPR-10627
2448453.383	310288.48	816.536	GPR-10628
2448450.593	310477.056	819.667	GPR-10631
2448468.45	309511.415	787.768	GPR-10635
2448465.005	309721.496	796.747	GPR-10637
2448460.72	310090.332	813.956	GPR-10641
2448467.722	309716.772	796.687	GPR-10643
2448471.46	309505.094	787.541	GPR-10644
2448457.354	310466.247	819.556	GPR-10647
2448460.631	310276.915	816.842	GPR-10648
2448470.185	309711.28	796.82	GPR-10649
2446600.09	310320.098	789.943	GPR-1065
2448473.715	309501.455	787.624	GPR-10650
2448472.133	309706.47	796.359	GPR-10654
2448476.083	309498.072	787.583	GPR-10655
2448466.852	310081.661	813.916	GPR-10657
2448477.757	309495.515	787.537	GPR-10659
2446594.08	310681.807	797.205	GPR-1066
2448474.698	309701.962	796.387	GPR-10661
2448479.078	309492.697	787.462	GPR-10664
2448475.988	309699.289	796.43	GPR-10665
2448480.334	309490.279	787.427	GPR-10669
2446592.981	310749.723	791.436	GPR-1067
2448464.323	310453.621	818.956	GPR-10670
2448468.081	310265.68	816.897	GPR-10672
2448472.159	310072.757	813.87	GPR-10675
2448478.87	309693.512	796.183	GPR-10677
2448479.319	309691.517	795.229	GPR-10678
2446592.611	310779.097	792.517	GPR-1068
2448479.437	309691.519	795.566	GPR-10680
2448479.531	309691.23	794.749	GPR-10681
2448483.335	309486.288	787.407	GPR-10683
2448477.066	309886.983	802.413	GPR-10685
2448480.6	309691.102	794.525	GPR-10686
2448481.511	309689.807	794.642	GPR-10689
2448483.354	309685.978	794.751	GPR-10692
2448477.494	310063.926	813.461	GPR-10693
2448488.021	309480.832	787.44	GPR-10695
2448486.577	309679.333	794.635	GPR-10701
2448477.073	310250.831	817.193	GPR-10702
2448475.181	310435.344	818.296	GPR-10705
2448491.825	309476.709	787.314	GPR-10707
2448485.87	309871.002	802.384	GPR-10708
2448477.393	310432.468	818.222	GPR-10711
2448492.071	309669.85	794.222	GPR-10715
2448482.544	310240.983	817.258	GPR-10716
2448496.217	309467.535	787.132	GPR-10718
2448496.406	309461.531	787.101	GPR-10720
2448496.24	309471.504	787.044	GPR-10722
2448496.437	309461.459	787.048	GPR-10723
2448496.55	309463.609	787.072	GPR-10732
2448489.026	310046.097	812.249	GPR-10735
2448495.762	309663.613	794.003	GPR-10737
2448483.54	310424.707	818.248	GPR-10738
2448494.643	309855.129	802.355	GPR-10740
2448488.972	310230.569	817.659	GPR-10742
2448498.967	309656.312	793.568	GPR-10744
2448493.359	310038.67	812.23	GPR-10745
2448489.403	310417.997	818.263	GPR-10749
2448503.139	309647.899	792.967	GPR-10750
2448494.247	310221.81	818.091	GPR-10752
2448498.593	310030.566	812.274	GPR-10756
2448506.972	309640.245	793.087	GPR-10759
2446600.184	310367.975	789.601	GPR-1076
2448497.393	310216.256	818.583	GPR-10760
2448489.108	310743.066	820.815	GPR-10764
2448489.138	310743.03	820.847	GPR-10765
2448489.173	310742.74	821.973	GPR-10767
2448489.26	310742.814	820.874	GPR-10771
2448489.504	310742.417	820.982	GPR-10776
2448489.689	310741.984	821.099	GPR-10779

2448495.384	310409.541	818.552	GPR-10782
2448489.971	310741.078	821.619	GPR-10784
2448490.58	310740.142	822.315	GPR-10787
2446597.524	310545.886	800.596	GPR-1080
2448510.705	309633.281	792.841	GPR-10800
2448498.843	310404.72	819.06	GPR-10802
2448505.697	310018.779	812.068	GPR-10803
2448508.918	309829.264	802.308	GPR-10804
2448512.847	309629.275	792.824	GPR-10806
2448503.605	310206.347	819.221	GPR-10808
2448495.647	310729.596	822.949	GPR-10810
2448501.544	310400.979	819.143	GPR-10811
2448515.415	309624.585	792.693	GPR-10812
2448516.301	309623.035	792.796	GPR-10817
2448510.111	310011.826	811.512	GPR-10819
2448518.132	309619.898	792.816	GPR-10822
2448505.961	310395.628	819.193	GPR-10826
2448516.863	309815.016	802.072	GPR-10829
2448502.029	310720.164	822.855	GPR-10831
2448511.38	310193.444	819.855	GPR-10833
2448515.781	310000.708	810.677	GPR-10834
2446602.132	310289.988	788.446	GPR-1084
2448508.056	310710.689	822.651	GPR-10843
2448527.01	309604.792	791.875	GPR-10846
2448514.35	310383.208	819.359	GPR-10847
2448522.08	309989.163	810.057	GPR-10848
2446599.124	310479.907	794.801	GPR-1085
2448525.915	309800.167	802.227	GPR-10851
2448519.915	310179.315	820.534	GPR-10854
2448529.664	309793.968	802.29	GPR-10861
2448514.826	310701.118	823.004	GPR-10865
2448527.544	309979.715	809.719	GPR-10868
2448524.702	310171.385	820.551	GPR-10869
2448534.65	309591.085	791.462	GPR-10871
2448532.804	309788.814	802.343	GPR-10880
2448523.465	310369.889	819.63	GPR-10882
2448531.881	309972.07	809.448	GPR-10888
2446598.903	310516.383	795.349	GPR-1089
2448529.449	310162.217	820.589	GPR-10891
2448535.913	309783.66	802.396	GPR-10892
2448540.4	309580.477	790.979	GPR-10896
2448521.866	310691.369	823.709	GPR-10897
2448537.65	309780.849	802.426	GPR-10899
2446528.423	309973.3	777.278	GPR-109
2448535.741	309966.345	809.004	GPR-10902
2448539.144	309778.362	802.452	GPR-10903
2448541.399	309774.686	802.49	GPR-10915
2448532.111	310356.236	819.988	GPR-10916
2448542.009	309773.641	802.5	GPR-10918
2448536.193	310150.679	820.596	GPR-10919
2448546.196	309570.671	790.452	GPR-10921
2448540.84	309955.691	808.776	GPR-10926
2448528.88	310681.402	824.104	GPR-10927
2446595.885	310721.229	790.866	GPR-1093
2448545.362	309768.163	802.557	GPR-10932
2448550.773	309561.1	789.294	GPR-10938
2446597.016	310656.735	794.346	GPR-1094
2448547.77	309764.198	802.598	GPR-10941
2448538.781	310347.391	820.549	GPR-10943
2448547.137	309944.255	808.184	GPR-10949
2448550.341	309759.29	801.817	GPR-10951
2448544.801	310137.571	820.208	GPR-10954
2448556.088	309551.686	787.773	GPR-10956
2448538.028	310669.686	824.236	GPR-10957
2448550.914	309936.417	807.767	GPR-10959
2448554.045	309752.289	800.776	GPR-10960
2448548.396	310131.77	820.275	GPR-10962
2448546.655	310335.581	821.152	GPR-10966
2448554.65	309929.271	807.564	GPR-10969
2448562.809	309541.532	786.092	GPR-10973
2448559.66	309742.698	799.692	GPR-10975
2448553.663	310123.447	819.862	GPR-10977
2448544.918	310660.007	824.656	GPR-10980
2448566.716	309534.753	785.306	GPR-10986
2448560.686	309919.287	806.932	GPR-10988
2446598.052	310608.623	797.451	GPR-1099
2448564.093	309734.617	798.363	GPR-10992
2448554.422	310323.114	821.721	GPR-10993
2448560.377	310113.657	819.38	GPR-11003
2448571.915	309525.228	783.022	GPR-11010
2448564.154	310107.64	819.16	GPR-11017
2448570.971	309722.172	795.537	GPR-11019
2446594.887	310809.826	794.595	GPR-1102
2448567.894	309906.556	806.212	GPR-11020
2448557.149	310642.918	824.898	GPR-11027
2446603.554	310290.048	790.893	GPR-1103
2448576.845	309517.556	781.303	GPR-11031
2448568.302	310100.61	818.623	GPR-11037
2446602.333	310367.064	789.655	GPR-1104
2448565.885	310305.903	822.212	GPR-11044
2448577.357	309712.521	796.8	GPR-11050
2448581.153	309511.657	778.35	GPR-11055
2448572.067	310093.501	818.472	GPR-11058
2448578.662	309886.567	805.484	GPR-11068
2448566.769	310629.572	825.522	GPR-11069
2448576.281	310086.144	818.157	GPR-11072
2448584.327	309699.823	797.189	GPR-11078
2448575.32	310291.17	822.218	GPR-11080
2448587.589	309694.452	796.772	GPR-11087
2446594.539	310887.839	795.121	GPR-1109
2448582.711	310077.405	817.641	GPR-11091
2448587.232	309872.183	804.852	GPR-11094

```
2448574.898 310618.494  825.839 GPR-11095
2448584.994 310073.802  817.638 GPR-11098
2448580.723 310610.473  826.153 GPR-11119
2446596.604 310779.637  793.614 GPR-1112
2448589.91  310065.256  817.816 GPR-11120
2448586.92  310272.869  822.884 GPR-11122
2446600.545 310546.009  800.89  GPR-1113
2448597.432 309854.259  804.286 GPR-11130
2448587.092 310601.842  826.381 GPR-11138
2448601.925 309846.179  804.089 GPR-11145
2448595.041 310258.697  823.112 GPR-11146
2448598.518 310052.111  817.297 GPR-11147
2446597.445 310748.669  791.822 GPR-1115
#2448590.327    310752.619  815.539 GPR-11153   Removed anaomalous elevations
2446604.708 310318.719  790.172 GPR-1116
2448604.656 310043.112  818.104 GPR-11164
2448595.534 310591.607  826.824 GPR-11165
2448609.022 309834.757  804.096 GPR-11176
2448595.353 310746.331  820.797 GPR-11188
2448614.526 309648.811  794.175 GPR-11194
2448608.959 310035.72   817.991 GPR-11197
2448605.856 310241.256  822.761 GPR-11199
2446603.387 310412.444  789.568 GPR-1120
#2448598.408    310740.885  818.737 GPR-11206   Removed anaomalous elevations
2446604.181 310366.439  789.792 GPR-1121
2448613.351 310028.33   817.244 GPR-11219
2448618.271 309820.531  803.87  GPR-11228
2448622.644 309634.894  794.061 GPR-11236
2448607.176 310576.073  826.924 GPR-11237
2448617.084 310021.366  816.323 GPR-11239
2448604.993 310745.946  820.388 GPR-11240
2446596.36  310851.39   794.645 GPR-1125
2448620.14  310015.883  815.405 GPR-11250
2448627.559 309626.384  793.838 GPR-11258
2448618.354 310224.172  823.517 GPR-11263
2446601.213 310564.696  797.522 GPR-1127
2448610.98  310722.928  821.02  GPR-11270
2448624.286 310008.999  814.645 GPR-11275
2448627.782 309804.852  804.045 GPR-11276
2446605.616 310301.514  790.611 GPR-1128
2448627.889 310002.724  813.941 GPR-11284
2448637.658 309610.934  795.124 GPR-11297
2446602.293 310515.747  795.378 GPR-1130
2448628.348 310209.739  823.528 GPR-11301
2448635.49  309792.384  803.174 GPR-11303
2448632.636 309995.376  812.914 GPR-11304
2448641.877 309603.25   794.76  GPR-11312
2448635.445 309990.472  812.462 GPR-11314
2448624.169 310707.056  823.798 GPR-11316
2448639.369 309984.457  812.648 GPR-11322
2448646.331 309595.715  794.229 GPR-11323
2448636.583 310195.86   822.661 GPR-11327
2448642.295 309979.664  812.119 GPR-11335
2448645.792 309771.877  802.909 GPR-11336
2446600.964 310608.198  797.829 GPR-1134
2448651.098 309587.166  793.297 GPR-11341
2448650.442 309763.254  802.573 GPR-11348
2448647.411 309971.522  812.065 GPR-11351
2448651.666 309721.88   802.217 GPR-11354
2448651.666 309721.88   802.217 GPR-11355
2448651.666 309721.88   802.23  GPR-11356
2448651.666 309721.88   802.234 GPR-11357
2446603.365 310479.796  795.053 GPR-1136
2448651.878 309721.629  802.255 GPR-11364
2448652.638 309720.513  802.263 GPR-11370
2448639.58  310527.829  825.35  GPR-11373
2448645.529 310180.246  822.906 GPR-11375
2448653.943 309718.678  802.228 GPR-11379
2448650.158 309966.835  811.767 GPR-11380
2448655.291 309716.043  802.256 GPR-11387
2446598.943 310778.037  792.298 GPR-1139
2448658.289 309575.454  792.98  GPR-11391
2448656.546 309713.661  802.342 GPR-11395
2448640.955 310687.022  825.894 GPR-11399
2448653.527 309960.338  812.823 GPR-11400
2448657.892 309711.171  802.429 GPR-11403
2448657.452 309753.541  802.421 GPR-11406
2446600.767 310680.716  797.018 GPR-1141
2448659.271 309708.5    802.495 GPR-11410
2448662.87  309567.448  792.602 GPR-11416
2448643.274 310747.022  820.374 GPR-11417
2448661.534 309704.315  802.629 GPR-11424
2448655.19  310164.388  822.6   GPR-11429
2446606.211 310365.599  789.978 GPR-1143
2448663.713 309699.909  802.718 GPR-11432
2448659.685 309950.101  812.814 GPR-11433
2448664.082 309743.494  801.999 GPR-11434
2448665.212 309697.131  802.742 GPR-11436
2446602.283 310607.346  797.464 GPR-1144
2448666.46  309695.15   802.824 GPR-11440
2448653.27  310512.148  827.641 GPR-11442
2448650.674 310674.806  826.988 GPR-11444
2448669.68  309555.475  793.267 GPR-11447
#2448655.363    310495.072  813.821 GPR-11451   Removed anaomalous elevations
2448668.93  309691.004  802.671 GPR-11452
2448662.768 310150.825  822.37  GPR-11459
2448669.777 309732.667  802.099 GPR-11460
2448667.579 309935.379  810.691 GPR-11466
2446600.666 310718.905  791.402 GPR-1147
2448657.219 310589.905  830.656 GPR-11472
2448657.219 310589.942  830.627 GPR-11476
2448657.249 310589.942  830.597 GPR-11482
```

2448657.279	310589.87	830.621	GPR-11483
2448672.439	309685.019	802.994	GPR-11485
2446605.236	310479.608	795.096	GPR-1149
2448676.318	309543.207	794.308	GPR-11497
2448659.114	310588.299	830.697	GPR-11499
2448674.615	309680.759	803.007	GPR-11502
2448668.42	310140.799	822.719	GPR-11509
2448675.612	309724.064	802.378	GPR-11510
2448672.602	309927.49	809.605	GPR-11514
2448662.348	310584.566	830.894	GPR-11519
2446608.598	310287.947	788.809	GPR-1152
2448679.867	309536.568	795.087	GPR-11520
2448661.59	310660.17	827.926	GPR-11523
2448678.818	309674.022	803.19	GPR-11528
2448676.718	309920.641	808.958	GPR-11538
2448680.926	309670.27	803.192	GPR-11539
2448666.622	310578.922	831.09	GPR-11543
2448674.321	310130.012	822.132	GPR-11545
2446601.199	310747.493	791.955	GPR-1155
2448682.207	309712.524	802.396	GPR-11550
2448683.13	309666.121	803.134	GPR-11553
2448686.138	309524.95	796.457	GPR-11557
2448670.161	310492.952	827.419	GPR-11558
2446604.636	310546.04	801.076	GPR-1156
2448669.67	310573.912	831.302	GPR-11567
2448685.804	309662.233	803.04	GPR-11570
2448668.034	310748.309	819.687	GPR-11573
2448683.44	309910.45	808.609	GPR-11576
2448680.381	310118.572	821.501	GPR-11578
2446602.893	310656.287	794.892	GPR-1158
2448688.223	309657.577	802.948	GPR-11582
2448673.209	310569.675	831.209	GPR-11583
2448672.99	310646.744	829.168	GPR-11587
2448689.152	309701.39	802.485	GPR-11588
2446599.062	310886.822	795.121	GPR-1159
2448691.029	309652.891	802.924	GPR-11592
2448675.91	310565.898	831.071	GPR-11595
2448693.523	309512.294	795.851	GPR-11596
2446524.848	310199.216	790.791	GPR-116
2448693.451	309648.053	802.917	GPR-11608
2446608.151	310364.794	790.211	GPR-1161
2448679.775	310481.754	827.427	GPR-11611
2448676.516	310689.435	829.811	GPR-11614
2448676.567	310689.946	829.748	GPR-11616
2448676.67	310690.858	829.61	GPR-11618
2448676.911	310690.607	829.646	GPR-11624
2448690.482	309898.808	808.342	GPR-11626
2448679.947	310560.249	831.155	GPR-11630
2448678.062	310689.17	829.839	GPR-11632
2448696.054	309643.072	802.729	GPR-11634
2448698.89	309503.319	794.476	GPR-11637
2448695.769	309690.323	802.647	GPR-11638
2448688.88	310103.132	820.882	GPR-11639
2446608.417	310364.835	790.223	GPR-1164
2448680.299	310686.55	830.066	GPR-11645
2448698.627	309638.091	802.742	GPR-11649
2446605.918	310515.225	795.374	GPR-1165
2448683.916	310555.109	831.338	GPR-11652
2448682.71	310684.223	830.253	GPR-11658
2448700.682	309634.012	802.624	GPR-11659
2448696.601	309889.19	807.89	GPR-11662
2448683.708	310683.002	830.323	GPR-11664
2446608.508	310364.727	790.275	GPR-1167
2448702.391	309631.055	802.645	GPR-11673
2448684.984	310681.167	830.511	GPR-11676
2448704.958	309493.226	792.927	GPR-11677
2448695.239	310088.02	820.991	GPR-11682
2448687.948	310549.752	831.323	GPR-11684
2448702.922	309679.157	802.719	GPR-11688
2448686.219	310679.95	830.8	GPR-11689
2448704.166	309627.699	802.707	GPR-11692
2448690.325	310465.947	827.788	GPR-11693
2448687.643	310630.169	830.356	GPR-11694
2446525.13	310185.823	785.97	GPR-117
2448690.132	310546.73	831.278	GPR-11700
2448687.034	310748.335	823.732	GPR-11704
2448688.248	310677.399	831.085	GPR-11705
2446610.113	310300.241	790.769	GPR-1171
2448687.232	310748.957	826.925	GPR-11719
2448706.461	309623.441	802.784	GPR-11727
2448708.884	309485.355	792.066	GPR-11729
2446610.715	310287.218	791.054	GPR-1173
2448702.298	309881.749	807.292	GPR-11731
2448707.785	309620.478	802.952	GPR-11736
2448690.61	310674.416	831.227	GPR-11738
2446610.246	310317.245	790.284	GPR-1174
2448709.117	309618.825	802.918	GPR-11747
2446602.578	310778.68	793.675	GPR-1175
2448711.718	309480.706	791.086	GPR-11751
2448712.563	309479.846	790.689	GPR-11757
2446601.57	310850.02	795.034	GPR-1176
2448710.616	309616.047	802.745	GPR-11760
2448702.988	310074.861	820.805	GPR-11761
2448713.076	309479.308	790.438	GPR-11764
2448713.468	309478.915	790.255	GPR-11766
2448694.199	310670.726	831.709	GPR-11771
2448697.995	310452.168	827.743	GPR-11772
2448714.584	309477.732	789.711	GPR-11777
2448712.89	309611.206	802.802	GPR-11781
2448712.127	309665.84	802.626	GPR-11783
2448715.609	309476.693	789.232	GPR-11787
2448698.366	310536.492	831.241	GPR-11792

2448696.497	310668.034	831.972	GPR-11795
2448716.635	309475.618	788.734	GPR-11797
2448710.236	309869.685	806.003	GPR-11799
2448717.933	309474.256	788.108	GPR-11806
2448716.314	309604.965	802.743	GPR-11810
2448699.366	310664.878	832.255	GPR-11815
2448698.287	310738.365	827.935	GPR-11817
2448716.843	309658.565	802.508	GPR-11819
2448702.733	310530.631	831.374	GPR-11823
2448720.949	309471.139	786.673	GPR-11828
2448711.255	310060.873	820.582	GPR-11830
2448716.139	309777.129	805.018	GPR-11833
2448716.169	309777.057	805.014	GPR-11838
2448702.487	310612.832	830.986	GPR-11843
2448715.928	309860.824	805.565	GPR-11850
2448702.843	310660.75	832.554	GPR-11852
2448720.768	309597.431	802.793	GPR-11853
2448723.392	309468.632	785.504	GPR-11855
2448702.29	310733.007	828.01	GPR-11856
2446606.78	310606.074	797.659	GPR-1186
2448718.902	309773.207	804.873	GPR-11860
2448706.381	310525.158	831.468	GPR-11861
2448722.024	309650.095	802.439	GPR-11867
2448725.776	309466.123	784.353	GPR-11872
2446604.713	310746.532	792.404	GPR-1189
2446606.154	310679.422	797.557	GPR-1191
2448726.048	309464.052	785.419	GPR-11921
2448726.048	309464.052	785.419	GPR-11922
2448726.048	309464.052	785.419	GPR-11923
2448726.048	309464.052	785.419	GPR-11924
2448726.048	309464.052	785.419	GPR-11925
2448726.048	309464.052	785.419	GPR-11926
2448726.048	309464.052	785.419	GPR-11927
2448726.048	309464.052	785.419	GPR-11928
2448726.048	309464.052	785.419	GPR-11929
2446603.593	310849.58	795.233	GPR-1193
2448726.048	309464.052	785.419	GPR-11930
2448726.048	309464.052	785.419	GPR-11931
2448726.048	309464.052	785.419	GPR-11932
2448726.048	309464.052	785.419	GPR-11933
2448726.048	309464.052	785.419	GPR-11934
2448726.048	309464.052	785.419	GPR-11935
2448726.048	309464.052	785.419	GPR-11936
2448726.048	309464.052	785.419	GPR-11937
2448726.048	309464.052	785.419	GPR-11938
2448726.048	309464.052	785.419	GPR-11939
2446613.12	310283.399	788.77	GPR-1194
2448726.048	309464.052	785.419	GPR-11940
2448726.048	309464.052	785.419	GPR-11941
2448726.048	309464.052	785.419	GPR-11942
2448726.048	309464.052	785.419	GPR-11943
2448726.048	309464.052	785.419	GPR-11944
2448726.048	309464.052	785.419	GPR-11945
2448726.048	309464.052	785.419	GPR-11946
2448726.048	309464.052	785.419	GPR-11947
2448726.048	309464.052	785.419	GPR-11948
2448726.048	309464.052	785.419	GPR-11949
2446606.039	310716.701	792.268	GPR-1195
2448726.048	309464.052	785.419	GPR-11950
2448726.048	309464.052	785.419	GPR-11951
2448726.048	309464.052	785.419	GPR-11952
2448726.048	309464.052	785.419	GPR-11953
2448726.048	309464.052	785.419	GPR-11954
2448726.048	309464.052	785.419	GPR-11955
2446604.73	310807.95	795.068	GPR-1196
2448726.045	309464.234	785.352	GPR-11963
2448719.607	309855.243	805.653	GPR-11965
2448706.416	310656.258	832.925	GPR-11968
2448724.337	309591.41	802.879	GPR-11971
2448726.956	309464.686	783.998	GPR-11974
2448711.535	310433.026	828.076	GPR-11979
2448718.966	310049.971	819.989	GPR-11984
2448726.661	309642.2	802.279	GPR-11992
2448727.645	309585.058	802.587	GPR-11993
2448710.044	310652.023	832.944	GPR-11995
2448712.471	310517.286	831.388	GPR-11996
2448725.078	309763.699	804.667	GPR-11997
2448709.15	310723.365	828.16	GPR-11998
2446612.333	310362.861	790.548	GPR-1200
2448724.182	309847.601	805.525	GPR-12001
2448712.623	310600.551	831.3	GPR-12007
2448730.52	309579.754	802.354	GPR-12009
2446609.052	310563.916	797.756	GPR-1201
2448730.588	309636.076	802.471	GPR-12013
2448727.608	309841.25	805.55	GPR-12018
2446611.709	310412.946	790.115	GPR-1202
2448714.582	310646.565	833.098	GPR-12022
2448732.835	309576.006	802.405	GPR-12024
2448717.866	310510.168	831.441	GPR-12027
2448733.592	309575.073	802.366	GPR-12029
2448730.831	309754.693	804.46	GPR-12030
2448734.166	309574.427	802.113	GPR-12032
2448735.38	309572.736	802.091	GPR-12038
2448734.818	309627.737	802.586	GPR-12039
2446612.602	310362.756	790.548	GPR-1204
2448736.12	309571.037	802.082	GPR-12043
2448720.686	310506.392	831.474	GPR-12045
2448717.295	310714.872	829.595	GPR-12048
2446605.77	310775.675	792.075	GPR-1205
2448719.874	310640.282	833.306	GPR-12055
2448737.191	309624.099	802.616	GPR-12059
2446604.693	310849.417	795.335	GPR-1206

2448738.723	309566.02	801.968	GPR-12062
2448730.98	310035.244	820.189	GPR-12063
2448735.933	309747.424	804.34	GPR-12064
2448734.857	309829.612	804.897	GPR-12065
2446610.345	310514.643	795.714	GPR-1207
2448724.895	310501.074	831.541	GPR-12073
2448723.69	310635.431	833.523	GPR-12078
2448738.698	309743.356	804.2	GPR-12079
2448724.9	310586.011	830.924	GPR-12082
2448742.578	309560.624	801.92	GPR-12084
2448742.121	309616.427	802.601	GPR-12087
2448739.15	309822.876	804.845	GPR-12090
2448728.056	310498.142	831.605	GPR-12091
2448729.949	310411.38	828.373	GPR-12095
2446613.02	310362.581	790.548	GPR-1210
2448745.226	309556.481	801.86	GPR-12101
2448742.986	309736.875	804.165	GPR-12105
2448728.276	310630.629	833.556	GPR-12107
2448746.406	309553.26	801.931	GPR-12109
2448746.528	309553.117	801.406	GPR-12111
2448731.411	310494.339	831.57	GPR-12113
2448746.477	309609.437	802.75	GPR-12117
2448747.482	309550.985	801.365	GPR-12118
2448740.155	310025.495	820.238	GPR-12120
2448730.369	310627.788	833.496	GPR-12122
2448745.632	309732.878	804.253	GPR-12124
2448749.167	309547.7	801.47	GPR-12129
2446610.159	310545.44	801.04	GPR-1213
2448734.257	310490.745	831.513	GPR-12138
2446614.025	310316.362	790.305	GPR-1214
2448747.519	309729.924	804.425	GPR-12141
2448751.082	309544.892	801.428	GPR-12143
2448746.721	309811.461	805.055	GPR-12145
2448750.256	309603.238	802.898	GPR-12146
2448733.732	310623.439	833.552	GPR-12149
2446611.323	310478.981	795.222	GPR-1215
2448752.936	309542.156	801.378	GPR-12155
2448750.013	309726.106	804.466	GPR-12156
2448737.925	310485.855	831.361	GPR-12158
2448752.885	309598.476	803.163	GPR-12159
2448746.468	310018.428	820.678	GPR-12164
2448754.618	309539.053	801.392	GPR-12165
2448736.758	310619.739	833.415	GPR-12166
2448752.081	309723.01	804.524	GPR-12168
2448755.747	309537.143	801.404	GPR-12172
2446608.417	310678.841	797.675	GPR-1218
2448756.175	309593.179	803.042	GPR-12183
2448739.601	310616.364	833.381	GPR-12189
2448754.603	309719.302	804.662	GPR-12190
2448738.741	310696.299	832.763	GPR-12195
2448742.864	310479.457	831.26	GPR-12197
2448751.01	310010.932	820.888	GPR-12199
2448759.849	309531.131	801.277	GPR-12204
2448755.453	309798.064	804.632	GPR-12206
2448757.769	309714.367	804.683	GPR-12212
2448745.098	310477.019	831.204	GPR-12214
2448746.786	310390.108	828.668	GPR-12215
2448760.281	309586.95	803.274	GPR-12216
2448743.441	310611.841	833.424	GPR-12218
2448746.191	310560.7	829.332	GPR-12229
2446607.867	310745.82	792.606	GPR-1223
2448759.457	309792.597	804.692	GPR-12231
2448761.019	309709.689	804.717	GPR-12232
2448756.159	310002.608	820.214	GPR-12234
2448764.222	309524.869	800.857	GPR-12235
2448763.7	309581.036	803.025	GPR-12238
2446615.911	310277.802	788.957	GPR-1225
2448764.4	309704.248	804.339	GPR-12261
2448767.986	309519.617	800.48	GPR-12265
2448760.492	309997	820.297	GPR-12270
2448754.276	310378.292	828.833	GPR-12273
2448764.28	309786.015	804.593	GPR-12274
2446615.75	310298.187	790.946	GPR-1228
2448761.879	309995.567	819.767	GPR-12284
2446614.894	310362.176	790.615	GPR-1229
2448767.622	309699.459	803.746	GPR-12293
2448769.839	309572	802.992	GPR-12295
2446524.879	310211.595	791.107	GPR-123
2446606.36	310884.65	795.438	GPR-1230
2448771.278	309514.174	800.1	GPR-12300
2448764.553	309993.464	818.899	GPR-12304
2448755.276	310549.238	828.71	GPR-12305
2448753.645	310682.458	832.292	GPR-12308
2448770.247	309694.952	803.48	GPR-12309
2448770.976	309693.872	803.401	GPR-12313
2448756.152	310599.748	833.166	GPR-12315
2448770.267	309777.231	804.493	GPR-12320
2448774.809	309508.627	799.46	GPR-12322
2448767.399	309989.871	818.4	GPR-12325
2448772.681	309691.207	803.304	GPR-12326
2448775.718	309564.308	802.334	GPR-12331
2448776.945	309505.022	798.97	GPR-12333
2448759.689	310544.105	829.32	GPR-12334
2448763.509	310365.012	829.492	GPR-12341
2448770.095	309986.421	818.227	GPR-12343
2448778.529	309502.463	798.644	GPR-12347
2448776.996	309684.871	803.177	GPR-12355
2448780.382	309499.8	798.373	GPR-12357
2448762.148	310593.914	833.212	GPR-12359
2448777.42	309684.332	803.154	GPR-12360
2448777.722	309683.973	803.137	GPR-12362
2448763.452	310538.925	829.305	GPR-12363

2448777.934	309683.722	803.126	GPR-12365
2446611.687	310605.136	798.042	GPR-1237
2448766.186	310451.45	831.215	GPR-12371
2448781.154	309558.318	802.245	GPR-12372
2448779.143	309682.322	803.073	GPR-12373
2448777.779	309765.816	804.098	GPR-12374
2448774.167	309982.193	817.985	GPR-12375
2448782.877	309495.91	797.804	GPR-12377
2448767.726	310449.764	831.313	GPR-12379
2446609.654	310745.304	792.751	GPR-1238
2448784.251	309493.53	797.446	GPR-12382
2448781.164	309680.281	803.045	GPR-12384
2448766.332	310590.088	833.095	GPR-12385
2448784.989	309491.977	797.212	GPR-12389
2448781.879	309680.074	803.054	GPR-12391
2448785.665	309490.532	796.998	GPR-12394
2448777.515	309978.754	817.849	GPR-12395
2448770.509	310446.425	831.476	GPR-12398
2448786.595	309488.072	796.689	GPR-12399
2446617.613	310271.678	789.48	GPR-1240
2448784.148	309679.056	803.028	GPR-12404
2448787.433	309485.865	796.41	GPR-12405
2448770.286	310529.064	828.853	GPR-12407
2448787.927	309484.635	796.225	GPR-12409
2448788.02	309484.418	796.14	GPR-12413
2448788.049	309484.419	796.137	GPR-12414
2448786.074	309677.341	802.991	GPR-12417
2448771.312	310584.82	832.943	GPR-12420
2448786.932	309675.68	802.931	GPR-12423
2448787.378	309673.795	802.861	GPR-12425
2448786.068	309754.049	804.451	GPR-12427
2448787.626	309671.396	802.895	GPR-12428
2446611.307	310654.752	795.756	GPR-1243
2448789.741	309548.232	801.626	GPR-12431
2448782.666	309973.852	817.944	GPR-12432
2448776.462	310349.1	828.582	GPR-12433
2448788.049	309667.362	803.059	GPR-12435
2446617.523	310284.236	791.598	GPR-1244
2448789.378	309664.108	803.146	GPR-12441
2448787.563	309792.374	807.868	GPR-12443
2448788.167	309791.729	807.972	GPR-12446
2448791.253	309661.918	803.233	GPR-12450
2448790.244	309788.014	807.575	GPR-12455
2448777.228	310578.438	832.97	GPR-12456
2448791.269	309746.2	804.392	GPR-12457
2448778.502	310518.097	828.129	GPR-12459
2446617.858	310265.857	789.517	GPR-1246
2448793.194	309659.293	803.304	GPR-12462
2448795.444	309544.031	800.76	GPR-12464
2448795.347	309656.38	803.305	GPR-12471
2448790.292	309962.766	817.173	GPR-12473
2448795.771	309655.804	803.29	GPR-12475
2448782.981	310430.905	831.751	GPR-12477
2448784.629	310337.514	827.911	GPR-12478
2448795.568	309781.622	807.174	GPR-12494
2446613.243	310545.382	801.08	GPR-1250
2448781.728	310658.717	832.408	GPR-12500
2448784.259	310510.621	827.879	GPR-12501
2448799.151	309650.473	803.265	GPR-12505
2448784.666	310571.499	832.882	GPR-12509
2448799.981	309733.93	804.37	GPR-12511
2448801.462	309647.016	803.308	GPR-12512
2448797.543	309954.586	816.586	GPR-12518
2446608.236	310848.456	795.485	GPR-1252
2448804.017	309643.127	803.365	GPR-12526
2448790.19	310503.402	828.13	GPR-12529
2446613.915	310513.865	795.881	GPR-1253
2448791.635	310420.346	831.739	GPR-12530
2448802.56	309773.038	806.569	GPR-12531
2448807.267	309638.412	803.209	GPR-12544
2448794.626	310402.775	828.584	GPR-12545
2448794.841	310409.441	828.734	GPR-12553
2448792.307	310564.782	832.649	GPR-12555
2448795.275	310388.806	828.262	GPR-12557
2448795.967	310354.413	827.793	GPR-12558
2446618.16	310261.966	789.386	GPR-1256
2448795.931	310358.345	827.938	GPR-12561
2448796.101	310351.722	827.737	GPR-12563
2448795.009	310417.162	829.083	GPR-12565
2446609.857	310774.141	792.032	GPR-1257
2448796.365	310346.556	827.71	GPR-12575
2448795.869	310376.256	828.439	GPR-12577
2448793.86	310498.403	828.4	GPR-12580
2448796.162	310362.281	828.211	GPR-12582
2448796.142	310367.049	828.528	GPR-12586
2448795.287	310423.575	829.288	GPR-12589
2446618.48	310258.768	789.084	GPR-1259
2448810.417	309534.997	798.142	GPR-12593
2448795.536	310428.166	829.351	GPR-12595
2448809.211	309635.641	803.158	GPR-12601
2448797.577	310336.091	827.712	GPR-12604
2448798.077	310329.219	828.046	GPR-12609
2448798.409	310323.545	828.238	GPR-12618
2448796.419	310446.348	828.728	GPR-12620
2448796.749	310451.45	828.782	GPR-12625
2448810.607	309633.662	803.117	GPR-12629
2448796.952	310455.24	828.754	GPR-12631
2448799.671	310318.979	827.754	GPR-12638
2448809.796	309723.136	803.432	GPR-12642
2448797.536	310461.075	828.804	GPR-12643
2448809.21	309763.574	806.495	GPR-12644
2448797.494	310474.289	829.131	GPR-12648

```
2448800.3   310316.841  827.359 GPR-12651
2448797.866 310466.213  829.052 GPR-12655
2448797.55  310485.139  829.431 GPR-12656
2448811.914 309631.754  803.086 GPR-12658
2448797.997 310490.317  828.746 GPR-12664
2448798.217 310493.124  828.234 GPR-12670
2448799.698 310411.525  831.424 GPR-12673
2448807.534 309943.868  815.723 GPR-12674
#2448801.604    310315.079  828.47  GPR-12678   Removed anaomalous elevations
2448800.062 310410.985  831.33  GPR-12679
2446611.87  310677.952  797.873 GPR-1268
2448797.589 310560.939  832.64  GPR-12680
2448797.707 310560.977  832.773 GPR-12683
2448797.912 310559.306  832.627 GPR-12685
2448814.007 309628.877  803.024 GPR-12693
2448815.374 309626.897  803.05  GPR-12707
2446619.064 310248.62   788.192 GPR-1271
2448804.277 310313.012  827.093 GPR-12718
2448817.436 309528.27   796.769 GPR-12721
2448814.276 309719.352  802.48  GPR-12722
#2448804.351    310313.924  830.058 GPR-12723   Removed anaomalous elevations
2448798.943 310644.951  832.701 GPR-12736
2448814.673 309720.414  802.765 GPR-12744
2448814.842 309720.926  802.892 GPR-12749
2448816.711 309624.954  803.061 GPR-12755
2448814.606 309756.419  806.408 GPR-12759
2446617.57  310361.674  790.771 GPR-1276
2448814.605 309756.455  806.373 GPR-12761
2448814.68  309755.51   806.33  GPR-12763
2448814.713 309755.328  806.382 GPR-12765
#2448805.63 310313.654  831.248 GPR-12767   Removed anaomalous elevations
2448801.966 310556.206  834.012 GPR-12770
2448817.653 309623.622  803.054 GPR-12772
2448802.232 310549.148  833.878 GPR-12773
2448802.001 310562.978  834.025 GPR-12774
2448802.033 310569.932  834.063 GPR-12780
2448801.969 310580.89   834.015 GPR-12781
2448802.075 310588.755  833.896 GPR-12788
2448802.337 310574.852  834.067 GPR-12790
2448803.025 310542.462  833.676 GPR-12792
2448802.244 310594.62   833.917 GPR-12795
2448802.127 310601.608  834.249 GPR-12798
2448813.23  309938.283  815.158 GPR-12799
2446611.053 310777.073  794.127 GPR-1280
2448800.815 310683.755  836.526 GPR-12802
2448800.748 310687.759  836.677 GPR-12803
2448799.86  310740.971  836.63  GPR-12804
2448799.761 310746.903  836.338 GPR-12806
2448799.835 310744.21   836.432 GPR-12809
2446610.568 310806.227  795.189 GPR-1281
2448799.815 310747.232  836.29  GPR-12815
2448799.813 310747.341  836.296 GPR-12817
2448799.813 310747.341  836.302 GPR-12818
2448799.813 310747.341  836.3   GPR-12819
2448813.445 309937.85   815.235 GPR-12827
2448801.078 310680.41   836.451 GPR-12828
2448801.305 310677.465  836.413 GPR-12833
2448801.075 310693.007  836.953 GPR-12836
2448818.989 309621.715  803.01  GPR-12837
2448801.03  310697.484  837.075 GPR-12838
2448800.976 310700.724  837.13  GPR-12839
2446614.308 310604.378  798.118 GPR-1284
2448801.565 310672.591  836.257 GPR-12843
2448801.005 310707.86   837.248 GPR-12844
2448803.925 310536.506  833.613 GPR-12845
2448802.447 310625.059  834.76  GPR-12846
2448801.03  310711.719  837.214 GPR-12848
2448802.764 310609.628  834.392 GPR-12850
2448819.324 309621.174  802.826 GPR-12852
2448802.365 310637.072  835.287 GPR-12853
2448801.059 310715.288  837.138 GPR-12854
2448802.3   310642.75   835.545 GPR-12856
2448802.184 310649.702  835.658 GPR-12857
2446615.997 310513.427  795.803 GPR-1286
2448819.385 309621.03   802.95  GPR-12860
2448819.415 309621.03   802.961 GPR-12863
2448819.415 309621.03   802.858 GPR-12864
2448804.663 310504.736  833.692 GPR-12866
2448805.094 310480.678  833.225 GPR-12870
2448804.391 310522.789  833.899 GPR-12871
2448804.578 310513.363  833.938 GPR-12872
2448804.905 310495.565  833.546 GPR-12873
2448802.021 310668.339  836.083 GPR-12875
2448801.17  310719.294  837.121 GPR-12876
2446612.715 310714.482  793.64  GPR-1288
2448802.706 310630.852  834.999 GPR-12881
2448802.946 310618.223  834.589 GPR-12883
2448805.171 310486.723  833.394 GPR-12885
2448804.45  310529.926  833.705 GPR-12886
2448805.477 310475.515  833.158 GPR-12888
2448802.432 310657.934  835.764 GPR-12889
2448802.371 310663.321  835.963 GPR-12890
2448806.188 310436.462  832.703 GPR-12891
2448806.128 310443.597  832.814 GPR-12892
2448806.035 310450.95   832.805 GPR-12893
2448806.379 310437.449  832.776 GPR-12894
2448806.047 310459.141  832.999 GPR-12896
2448806.012 310463  833.048 GPR-12897
2448806.487 310436.322  832.714 GPR-12898
2448806.146 310456.74   832.993 GPR-12899
2448806.022 310469.48   833.049 GPR-12902
2448823.352 309527.24   799.303 GPR-12906
```

2448808.683	310436.176	833.026	GPR-12908
2448821.425	309898.373	808.927	GPR-12915
2448821.291	309906.416	808.878	GPR-12916
2448821.105	309917.59	809.632	GPR-12917
2448821.055	309941.909	811.769	GPR-12921
2448821.248	309933.903	811.293	GPR-12923
2448821.028	309952.393	812.674	GPR-12925
2448821.812	309926.704	810.691	GPR-12933
2448823.387	309834.184	810.25	GPR-12936
2448823.387	309834.184	810.123	GPR-12937
2448823.386	309834.221	810.19	GPR-12938
2446621.04	310242.063	788.239	GPR-1294
2448823.415	309834.221	810.119	GPR-12942
2448823.442	309834.404	810.308	GPR-12944
2448823.473	309834.295	810.294	GPR-12947
2446620.161	310296.768	790.974	GPR-1295
2448823.473	309834.331	810.222	GPR-12950
2448823.472	309834.368	810.318	GPR-12951
2448823.533	309834.296	810.24	GPR-12954
2448819.655	310066.578	820.808	GPR-12955
2448823.562	309834.333	810.239	GPR-12958
2448823.561	309834.369	810.156	GPR-12960
2448823.561	309834.406	810.014	GPR-12961
2448821.475	309962.886	813.311	GPR-12964
2448819.966	310056.863	820.017	GPR-12968
2446618.747	310413.937	790.247	GPR-1297
2448820.592	310024.69	818	GPR-12972
2448820.554	310028.73	818.217	GPR-12975
2448820.192	310050.422	819.638	GPR-12977
2448820.466	310035.792	818.602	GPR-12980
2448822.937	309889.551	809.065	GPR-12984
2448820.396	310043.472	819.043	GPR-12989
2446614.962	310654.193	796.905	GPR-1299
2448820.886	310017.668	817.748	GPR-12995
2448821.716	309971.555	813.924	GPR-12999
2446524.501	309915.021	775.49	GPR-13
2446621.915	310237.563	788.452	GPR-1300
2448821.563	309980.69	814.852	GPR-13000
2448821.102	310010.099	817.414	GPR-13004
2448821.26	310002.384	816.835	GPR-13008
2446615.828	310603.858	798.136	GPR-1301
2448821.586	309988.227	815.654	GPR-13012
2448821.513	309994.378	816.169	GPR-13015
2448824.211	309834.526	810.119	GPR-13017
2448814.164	310436.341	833.145	GPR-13019
2448823.476	309882.097	809.115	GPR-13021
2448820.139	310083.77	821.675	GPR-13022
2446620.754	310314.58	790.364	GPR-1303
2448820.15	310088.43	821.869	GPR-13032
2448823.869	309872.747	809.55	GPR-13039
2448820.404	310089.199	822.49	GPR-13041
2448827.671	309675.196	800.86	GPR-13045
2448827.866	309672.395	800.773	GPR-13050
2448824.696	309862.276	809.338	GPR-13051
2448827.839	309677.565	800.85	GPR-13052
2448828.023	309678.951	800.777	GPR-13056
2448825.518	309829.014	807.404	GPR-13057
2446620.23	310360.407	790.883	GPR-1306
2448825.664	309829.125	807.217	GPR-13060
2448825.694	309829.126	807.168	GPR-13065
2448828.389	309669.492	800.733	GPR-13066
2448825.753	309829.163	807.14	GPR-13068
2448828.674	309661.305	800.622	GPR-13070
2448828.732	309659.558	800.609	GPR-13072
2448828.673	309663.089	800.632	GPR-13075
2448828.611	309666.801	800.682	GPR-13076
2448828.792	309657.739	800.621	GPR-13079
2448828.671	309664.982	800.641	GPR-13080
2448828.887	309655.629	800.658	GPR-13084
2448829.059	309654.176	800.638	GPR-13087
2448826.132	309829.534	807.162	GPR-13088
2446613.888	310772.388	792.178	GPR-1309
2448828.81	309685.117	800.718	GPR-13094
2448826.131	309850.868	808.221	GPR-13095
2448829.563	309650.616	800.562	GPR-13097
2448828.8	309698.15	800.753	GPR-13104
2448826.44	309839.514	807.733	GPR-13105
2448828.948	309691.017	800.724	GPR-13110
2448828.792	309703.939	800.76	GPR-13113
2448828.738	309708.962	800.806	GPR-13115
2448826.559	309846.579	808.061	GPR-13119
2446623.071	310234.015	788.425	GPR-1312
2448826.908	309829.219	807.284	GPR-13122
2448826.984	309829.985	807.345	GPR-13125
2448830.116	309645.929	800.599	GPR-13126
2448827.036	309833.954	807.593	GPR-13129
2448830.355	309642.256	800.58	GPR-13133
2448829.198	309715.159	801.316	GPR-13135
2448828.42	309763.494	804.7	GPR-13136
2448817.212	310436.683	833.479	GPR-13138
2448829.047	309729.464	802.848	GPR-13139
2448827.626	309816.379	808.781	GPR-13143
2448827.657	309816.307	808.769	GPR-13144
2448828.902	309743.515	803.751	GPR-13147
2446622.908	310281.268	792.014	GPR-1315
2448828.741	309754.907	804.285	GPR-13155
2448827.736	309815.143	808.719	GPR-13156
2448828.855	309749.849	804.027	GPR-13158
2448829.312	309726.083	802.583	GPR-13162
2448828.074	309800.186	807.567	GPR-13163
2448827.882	309813.471	808.634	GPR-13169
2448829.045	309745.629	803.762	GPR-13171

2448830.888	309638.77	800.528	GPR-13173
2448829.472	309723.573	802.425	GPR-13174
2448828.191	309805.649	807.931	GPR-13177
2446619.854	310479.341	795.219	GPR-1318
2448831.19	309634.843	800.445	GPR-13180
2448831.61	309629.243	800.326	GPR-13190
2448823.056	310141.669	825.665	GPR-13191
2448823.056	310141.669	825.857	GPR-13192
2448831.713	309624.84	800.279	GPR-13195
2448828.933	309793.137	807.033	GPR-13199
2448831.925	309615.669	800.158	GPR-13200
2448829.495	309770.138	805.077	GPR-13208
2446624.125	310234.797	788.6	GPR-1321
2448823.893	310109.244	822.506	GPR-13211
2448832.618	309591.943	799.601	GPR-13218
2446613.479	310882.583	795.672	GPR-1322
2448832.347	309608.176	799.947	GPR-13220
2448832.648	309599.043	799.739	GPR-13228
2446615.822	310743.367	793.341	GPR-1323
2448824.192	310109.104	822.571	GPR-13233
2448832.656	309603.849	799.82	GPR-13236
2448829.8	309774.949	805.37	GPR-13237
2448829.601	309786.85	806.725	GPR-13238
2448828.995	309828.526	807.678	GPR-13244
2448830.03	309780.741	805.983	GPR-13249
2448819.454	310437.339	833.528	GPR-13253
2448833.934	309575.291	799.091	GPR-13254
2448833.849	309580.387	799.155	GPR-13257
2446621.673	310414.459	790.321	GPR-1326
2448834.859	309564.239	799.16	GPR-13271
2448835.124	309551.902	798.77	GPR-13275
2448834.859	309569.554	799.104	GPR-13276
2446614.633	310847.033	795.675	GPR-1328
2448835.55	309540.586	798.277	GPR-13281
2448836.478	309532.956	797.54	GPR-13288
2448837.479	309528.058	797.101	GPR-13295
2448837.679	309517.831	796.1	GPR-13297
2448837.897	309520.748	796.263	GPR-13303
2448837.958	309524.244	796.783	GPR-13307
2446620.302	310513.025	795.823	GPR-1331
2448838.191	309513.835	795.682	GPR-13311
2448838.184	309514.236	795.724	GPR-13312
2448823.126	310437.546	833.504	GPR-13314
2448838.643	309511.585	795.58	GPR-13315
2448833.409	309834.024	810.399	GPR-13316
2448828.355	310142.085	826.696	GPR-13317
2448838.946	309509.406	795.474	GPR-13318
2448838.935	309510.061	795.437	GPR-13319
2448839.004	309509.516	795.403	GPR-13320
2448825.575	310436.422	833.102	GPR-13324
2448826.519	310436.729	833.248	GPR-13326
2448827.706	310438.424	833.517	GPR-13330
2448830.26	310441.67	833.824	GPR-13336
2448836.881	310093.006	822.762	GPR-13337
2446623.458	310358.786	790.955	GPR-1334
2448832.37	310443.161	833.943	GPR-13340
2448837.843	310143.736	827.103	GPR-13342
2448833.862	310444.351	834.023	GPR-13345
2448835.161	310444.664	834.064	GPR-13346
2448840.863	310119.103	823.529	GPR-13347
2448845.937	309820.471	808.407	GPR-13348
2446616.75	310771.379	792.322	GPR-1335
2448846.112	309831.324	810.719	GPR-13350
2448835.992	310444.569	833.78	GPR-13351
2448836.081	310444.57	833.761	GPR-13355
2448836.078	310444.789	833.872	GPR-13356
2448836.075	310444.971	833.801	GPR-13358
2448836.041	310447.009	833.847	GPR-13359
2448836.104	310444.971	833.852	GPR-13362
2448836.059	310449.449	833.712	GPR-13365
2448836.16	310454.038	833.743	GPR-13370
2448836.43	310460.959	833.832	GPR-13378
2448836.615	310465.877	833.967	GPR-13383
2448836.535	310474.213	834.123	GPR-13385
2448836.666	310478.766	834.263	GPR-13387
2448847.807	309830.988	810.773	GPR-13390
2448837.03	310483.614	834.604	GPR-13391
2448843.68	310143.906	827.063	GPR-13403
2448838.156	310503.183	835.369	GPR-13407
2448844.648	310121.423	823.589	GPR-13408
2448839.122	310510.99	835.49	GPR-13414
2448851.571	309790.202	809.133	GPR-13418
2448851.528	309792.787	809.708	GPR-13419
2446620.961	310562.585	798.71	GPR-1342
2448839.489	310519.224	835.211	GPR-13422
2448851.608	309795.082	810.177	GPR-13423
2448839.549	310520.937	835.173	GPR-13425
2448851.8	309797.779	810.43	GPR-13426
2448851.83	309801.311	810.463	GPR-13428
2448851.829	309801.347	810.499	GPR-13430
2448851.858	309801.42	810.622	GPR-13432
2448851.952	309801.131	810.721	GPR-13435
2448852.357	309789.305	809.546	GPR-13440
2448852.489	309784.939	809.443	GPR-13446
2448852.945	309777.155	808.432	GPR-13448
2446617.47	310804.74	795.765	GPR-1345
2448853.32	309772.429	808.044	GPR-13451
2448853.789	309765.629	807.447	GPR-13455
2448854.062	309759.954	807.14	GPR-13456
2448854.902	309741.582	806.335	GPR-13462
2448854.758	309750.208	806.651	GPR-13463
2448848.528	310123.417	823.526	GPR-13464

2448857.837	309592.401	802.046	GPR-13468
2448857.828	309596.551	802.378	GPR-13478
2448857.54	309613.803	802.978	GPR-13479
2446622.012	310545.674	801.157	GPR-1348
2448858.048	309586.907	801.67	GPR-13486
2446626.209	310294.902	791.216	GPR-1349
2448857.835	309599.682	802.639	GPR-13491
2448855.623	309732.165	805.931	GPR-13496
2448858.492	309563.869	801.249	GPR-13505
2448858.178	309582.65	801.474	GPR-13508
2448858.298	309577.227	801.236	GPR-13513
2448857.773	309608.71	803.007	GPR-13517
2446619.469	310712.992	794.279	GPR-1352
2448858.373	309574.534	801.192	GPR-13522
2448857.353	309635.607	802.703	GPR-13529
2446621.477	310601.112	798.267	GPR-1353
2448858.463	309570.895	801.175	GPR-13531
2448857.641	309620.139	802.702	GPR-13535
2448857.518	309629.275	802.886	GPR-13541
2448857.735	309621.597	802.748	GPR-13544
2448857.698	309623.854	802.8	GPR-13549
2448857.333	309645.728	802.844	GPR-13553
2448857.411	309642.78	802.7	GPR-13557
2448858.979	309556.013	801.23	GPR-13563
2448857.458	309648.861	802.81	GPR-13566
2446620.892	310675.553	798.202	GPR-1357
2448857.567	309653.013	802.678	GPR-13572
2448856.451	309721.585	805.351	GPR-13575
2448857.602	309658.002	802.791	GPR-13582
2446623.785	310512.136	796.245	GPR-1359
2448849.512	310144.368	827.248	GPR-13591
2448856.723	309714.199	804.773	GPR-13596
2446622.432	310600.691	798.264	GPR-1360
2448857.083	309694.436	803.676	GPR-13601
2448859.566	309547.468	800.972	GPR-13605
2448857.594	309665.61	802.822	GPR-13607
2446626.589	310357.673	790.953	GPR-1361
2448857.495	309671.507	803.135	GPR-13610
2448857.05	309698.185	803.971	GPR-13615
2446627.732	310312.111	790.54	GPR-1363
2448859.871	309539.827	800.672	GPR-13631
2448857.349	309690.945	803.484	GPR-13632
2448857.27	309702.74	804.37	GPR-13648
2448857.73	309678.755	803.377	GPR-13649
2446620.364	310769.765	792.8	GPR-1365
2448857.276	309705.907	804.502	GPR-13651
2448860.331	309530.042	799.746	GPR-13659
2448857.728	309687.748	803.388	GPR-13665
2448857.962	309682.582	803.463	GPR-13674
2448857.92	309685.13	803.372	GPR-13676
2446626.567	310414.285	790.459	GPR-1368
2448857.983	309684.912	803.329	GPR-13680
2448860.805	309524.734	798.998	GPR-13686
2448862.62	309519.012	797.95	GPR-13696
2446629.374	310277.48	792.618	GPR-1370
2448863.082	309517.964	797.659	GPR-13702
2448854.462	310096.43	822.599	GPR-13707
2448854.572	310125.339	823.528	GPR-13710
2448854.489	310144.524	827.369	GPR-13711
2448844.708	310742.848	838.097	GPR-13714
2448844.729	310743.358	838.022	GPR-13717
2448844.729	310743.358	838.038	GPR-13718
2448845.487	310706.819	837.691	GPR-13720
2448845.015	310736.882	838.401	GPR-13721
2448845.607	310712.063	838.035	GPR-13725
2446623.3	310651.929	797.762	GPR-1373
2448845.504	310728.918	838.486	GPR-13730
2448845.772	310718.146	838.437	GPR-13732
2446630.322	310232.934	788.229	GPR-1374
2448846.969	310699.744	836.883	GPR-13740
2448848.361	310692.704	836.994	GPR-13747
2448864.066	309810.58	808.549	GPR-13752
2448849.56	310684.824	837.699	GPR-13753
2448850.06	310660.185	838.409	GPR-13755
2448850.19	310661.28	838.461	GPR-13756
2448850.492	310666.272	838.545	GPR-13761
2448850.44	310676.465	838.252	GPR-13763
2448859.381	310144.496	827.403	GPR-13765
2448850.567	310672.463	838.48	GPR-13767
2448860.115	310127.179	823.543	GPR-13771
2448866.97	309810.665	809.734	GPR-13775
2448867.03	309810.63	809.882	GPR-13777
2448862.435	310144.474	827.384	GPR-13782
2448867.874	309825.753	811.243	GPR-13783
2446622.461	310741.657	793.927	GPR-1379
2448870.799	309810.365	810.434	GPR-13793
2446526.061	310233.24	789.899	GPR-138
2448867.254	310129.227	823.502	GPR-13800
2448860.77	310528.245	835.697	GPR-13801
2448867.736	310144.745	827.335	GPR-13803
2448862.756	310528.278	835.727	GPR-13808
2446621.032	310845.465	796.267	GPR-1381
2448864.354	310528.45	835.721	GPR-13812
2448871.178	310130.349	823.532	GPR-13813
2448877.372	309771.811	808.733	GPR-13814
2448877.372	309771.811	808.733	GPR-13815
2448877.372	309771.811	808.733	GPR-13816
2448877.372	309771.811	808.733	GPR-13817
2448878.071	309770.767	808.668	GPR-13821
2448872.745	310144.792	827.191	GPR-13825
2448878.375	309823.598	811.459	GPR-13827
2446627.205	310479.391	795.213	GPR-1383

2448879.673	309768.937	808.623	GPR-13830
2448882.23	309644.141	801.409	GPR-13835
2446620.54	310880.444	796.356	GPR-1384
2448880.522	309753.551	805.737	GPR-13844
2448882.129	309659.066	801.657	GPR-13848
2448882.539	309638.103	801.846	GPR-13855
2448880.612	309753.48	806.027	GPR-13858
2446622.426	310774.095	795.085	GPR-1386
2448882.33	309652.371	801.594	GPR-13861
2448882.856	309635.087	801.797	GPR-13871
2448880.97	309749.809	805.239	GPR-13873
2448883.115	309628.429	801.247	GPR-13875
2448883.136	309630.759	801.797	GPR-13879
2448883.377	309625.193	800.819	GPR-13888
2448883.491	309621.918	800.46	GPR-13895
2448882.749	309666.358	801.709	GPR-13896
2448869.628	310454.014	834.776	GPR-13897
2446622.688	310769.002	792.946	GPR-1390
2448880.629	309802.192	810.331	GPR-13903
2448883.095	309674.046	801.645	GPR-13909
2446629.623	310357.032	791.013	GPR-1391
2448883.197	309676.814	801.802	GPR-13915
2446627.059	310511.353	796.677	GPR-1392
2448870.233	310465.71	835.85	GPR-13929
2448870.273	310465.092	835.792	GPR-13931
2448870.245	310466.766	835.877	GPR-13932
2448883.388	309681.332	802.249	GPR-13934
2448870.327	310463.637	835.655	GPR-13935
2446624.019	310712.121	794.629	GPR-1394
2448883.283	309689.412	802.729	GPR-13941
2448870.376	310462.509	835.548	GPR-13945
2448883.396	309684.427	802.462	GPR-13947
2448883.371	309685.882	802.54	GPR-13948
2446625.927	310599.074	798.185	GPR-1395
2448870.544	310455.959	835.054	GPR-13956
2448882.692	309730.105	804.138	GPR-13958
2448870.591	310454.94	835.011	GPR-13960
2448870.694	310454.068	834.959	GPR-13968
2448882.873	309728.179	804.032	GPR-13971
2446628.539	310479.377	795.202	GPR-1398
2448869.627	310530.431	835.907	GPR-13980
2448869.686	310528.648	835.891	GPR-13984
2448869.655	310530.504	835.953	GPR-13988
2448869.655	310530.504	835.943	GPR-13989
2448869.655	310530.504	835.929	GPR-13990
2448885.115	309606.327	798.884	GPR-13996
2448869.807	310524.973	835.876	GPR-14000
2448883.548	309705.472	803.253	GPR-14004
2448883.713	309699.176	803.188	GPR-14008
2448883.385	309720.578	803.571	GPR-14012
2446633.297	310232.292	788.234	GPR-1402
2448876.704	310131.424	823.312	GPR-14021
2448870.332	310520.14	835.821	GPR-14030
2448882.272	309806.77	810.893	GPR-14033
2448883.901	309712.759	803.42	GPR-14037
2448870.542	310512.898	835.979	GPR-14038
2448885.881	309599.495	798.614	GPR-14044
2448886.032	309592.216	798.409	GPR-14047
2446625.807	310711.532	795.016	GPR-1405
2448867.293	310734.16	839.452	GPR-14055
2448887.058	309584.006	798.718	GPR-14080
2448872.648	310454.246	834.97	GPR-14085
2446627.165	310651.229	797.47	GPR-1410
2448880.091	310100.753	822.523	GPR-14100
2448889.059	309574.246	799.056	GPR-14104
2448890.096	309563.632	799.207	GPR-14120
2448890.245	309567.166	799.554	GPR-14124
2448880.911	310131.531	823.114	GPR-14125
2448872.197	310710.25	839.71	GPR-14143
2446627.265	310673.766	798.817	GPR-1415
2448892.812	309544.819	798.681	GPR-14152
2448892.843	309544.747	798.716	GPR-14154
2448877.958	310455.791	834.906	GPR-14160
2448883.847	310131.434	822.961	GPR-14161
2448889.549	309804.161	811.212	GPR-14162
2448885.086	310146.017	827.058	GPR-14167
2448885.539	310131.317	823.101	GPR-14168
2446626.234	310767.896	793.123	GPR-1417
2448886.768	310146.482	826.982	GPR-14174
2448888.122	310131.105	822.969	GPR-14179
2448897.847	309591.249	799.691	GPR-14186
2448894.666	309790.631	810.761	GPR-14187
2448884.451	310457.465	834.963	GPR-14194
2448898.918	309592.795	799.949	GPR-14195
2448895.491	309817.549	811.712	GPR-14197
2448899.269	309593.093	799.848	GPR-14199
2446629.21	310597.745	798.358	GPR-1420
2448899.38	309593.495	799.848	GPR-14200
2448896.049	309801.867	811.491	GPR-14202
2448899.891	309596.634	799.92	GPR-14205
2446633.257	310356	791.146	GPR-1421
2448891.43	310146.014	826.825	GPR-14210
2448900.665	309598.213	799.925	GPR-14211
2448899.361	309695.87	804.632	GPR-14216
2448901.18	309599.314	799.966	GPR-14223
2448899.234	309722.991	805.315	GPR-14229
2448892.432	310132.16	822.958	GPR-14231
2448901.342	309600.263	799.993	GPR-14232
2448900.475	309677.066	804.815	GPR-14236
2448884.366	310666.729	838.453	GPR-14248
2446631.13	310510.766	796.843	GPR-1425
2448902.428	309602.684	800.492	GPR-14256

2448898.895	309816.113	812.114	GPR-14258
2448901.432	309665.905	803.955	GPR-14259
2448902.85	309604.074	800.831	GPR-14268
2446634.882	310292.097	791.544	GPR-1427
2448885.378	310662.923	838.556	GPR-14271
2448894.07	310145.876	826.669	GPR-14273
2448900.768	309750.066	806.935	GPR-14277
2448903.379	309606.086	801.063	GPR-14284
2446626.627	310803.144	796.612	GPR-1429
2448900.088	309815.66	812.047	GPR-14290
2448903.918	309609.335	801.358	GPR-14299
2448904.191	309612.543	801.469	GPR-14306
2446626.153	310844.13	796.494	GPR-1431
2448903.655	309649.96	803.433	GPR-14310
2448904.32	309613.674	801.429	GPR-14313
2448904.14	309626.231	802.413	GPR-14319
2448904.464	309610.4	801.403	GPR-14326
2448904.233	309624.194	802.31	GPR-14327
2446628.263	310740.334	793.996	GPR-1433
2448904.301	309629.001	802.543	GPR-14332
2448904.187	309642.943	803.136	GPR-14335
2448887.303	310655.929	838.748	GPR-14338
2448904.804	309636.181	803.159	GPR-14348
2446634.865	310355.59	791.213	GPR-1435
2448904.998	309631.67	802.967	GPR-14353
2448903.083	309751.671	806.924	GPR-14357
2446633.051	310479.015	795.461	GPR-1436
2448905.17	309633.784	802.931	GPR-14361
2448891.445	310459.366	835.405	GPR-14365
2448902.713	309798.665	811.636	GPR-14368
2446631.086	310597.23	798.218	GPR-1437
2448903.399	309784.223	811.116	GPR-14370
2448897.418	310146.005	826.456	GPR-14371
2448897.934	310132.871	822.726	GPR-14372
2448889.854	310648.763	838.892	GPR-14375
2448892.228	310641.485	839.01	GPR-14386
2448895.507	310461.072	835.548	GPR-14388
2448907.449	309811.523	811.745	GPR-14392
2448902.361	310146.488	826.521	GPR-14395
2448894.221	310633.982	839.182	GPR-14396
2448903.182	310134.56	822.695	GPR-14398
2448895.64	310628.872	839.247	GPR-14403
2448910.152	309795.258	811.618	GPR-14404
2448900.318	310462.354	835.832	GPR-14409
2448897.835	310621.7	839.15	GPR-14410
2448915.478	309627.149	801.831	GPR-14415
2448915.508	309627.113	801.819	GPR-14419
2448915.539	309627.04	801.86	GPR-14422
2448915.632	309626.823	802.001	GPR-14425
2448899.454	310613.499	838.957	GPR-14428
2448915.934	309628.285	801.891	GPR-14429
2448907.429	310146.5	826.531	GPR-14431
2448901.16	310545.047	838.798	GPR-14435
2446631.029	310650.638	797.282	GPR-1444
2448900.875	310585.235	840.328	GPR-14446
2448901.451	310552.479	839.263	GPR-14447
2448917.274	309631.438	801.956	GPR-14455
2448902.382	310539.315	838.493	GPR-14457
2448909.292	310134.371	822.614	GPR-14460
2448901.427	310605.414	839.624	GPR-14461
2448901.755	310592.859	840.214	GPR-14463
2448902.758	310534.589	838.316	GPR-14464
2448916.285	309745.702	807.34	GPR-14467
2448916.307	309746.212	807.41	GPR-14470
2448915.613	309793.056	811.881	GPR-14473
2448918.312	309634.987	802.169	GPR-14475
2448903.812	310530.019	837.964	GPR-14478
2448902.665	310598.735	840.117	GPR-14479
2448917.275	309741.495	807.093	GPR-14485
2448910.789	310145.9	826.511	GPR-14487
2448905.598	310463.898	836.233	GPR-14489
2446637.187	310308.592	790.843	GPR-1449
2448904.693	310518.129	838.39	GPR-14490
2448904.707	310520.823	838.369	GPR-14491
2448905.041	310523.887	838.324	GPR-14498
2448918.392	309738.492	807.066	GPR-14500
2448906.255	310465.402	836.404	GPR-14501
2448905.428	310514.937	838.516	GPR-14502
2448920.179	309638.586	802.528	GPR-14505
2448905.812	310507.917	838.596	GPR-14508
2446638.102	310273.147	792.875	GPR-1451
2448917.67	309804.813	812.698	GPR-14511
2448906.396	310503.121	838.457	GPR-14515
2448906.497	310498.827	838.282	GPR-14516
2446629.426	310802.354	796.667	GPR-1452
2448906.828	310493.226	837.825	GPR-14521
2448921.209	309640.787	802.646	GPR-14522
2448919.76	309734.656	806.887	GPR-14524
2448907.19	310487.48	837.338	GPR-14526
2448907.416	310475.76	836.988	GPR-14527
2448907.336	310480.565	836.933	GPR-14528
2448919.31	309772.256	810.913	GPR-14534
2448907.44	310483.188	836.986	GPR-14535
2448907.663	310471.614	836.988	GPR-14536
2448914.793	310053.458	823.533	GPR-14539
2448914.823	310053.459	823.534	GPR-14541
2448914.823	310053.459	823.535	GPR-14542
2448920.356	309732.7	806.712	GPR-14547
2448908.07	310468.563	836.787	GPR-14550
2448908.195	310468.128	836.604	GPR-14554
2448908.238	310467.364	836.671	GPR-14558
2448908.238	310467.364	836.677	GPR-14559

2448922.09	309643.059	802.774	GPR-14563
2448908.33	310467.147	836.597	GPR-14564
2448921.306	309729.075	806.532	GPR-14571
2448915.057	310103.34	821.883	GPR-14572
2448922.854	309645.257	802.899	GPR-14577
2448920.44	309791.571	811.989	GPR-14578
2446637.278	310354.829	791.322	GPR-1458
2448914.683	310145.274	826.537	GPR-14580
2448915.155	310131.229	822.427	GPR-14584
2446630.912	310739.723	794.099	GPR-1459
2448922.544	309724.181	806.141	GPR-14592
2446526.462	310250.176	789.297	GPR-146
2448924.003	309649.244	802.926	GPR-14600
2448917.633	310032.499	822.809	GPR-14605
2448918.001	310015.794	823.053	GPR-14611
2448906.689	310709.26	842.611	GPR-14619
2446630.975	310766.228	793.574	GPR-1462
2448906.653	310711.371	842.638	GPR-14621
2448906.752	310712.574	842.483	GPR-14625
2448906.751	310712.611	842.48	GPR-14628
2448906.783	310712.466	842.52	GPR-14630
2448923.419	309719.717	805.924	GPR-14633
2448907.401	310703.884	842.718	GPR-14638
2446629.874	310843.173	796.82	GPR-1464
2448925.013	309652.647	802.917	GPR-14640
2448907.54	310700.901	842.624	GPR-14641
2448907.929	310697.121	842.338	GPR-14644
2446635.467	310510.182	797.085	GPR-1465
2448925.53	309653.675	803.036	GPR-14650
2448919.842	310001.372	823.217	GPR-14651
2448908.468	310687.883	841.754	GPR-14654
2448908.347	310695.162	842.172	GPR-14655
2448908.775	310685.522	841.608	GPR-14657
2446629.499	310878.262	797.131	GPR-1466
2448925.074	309714.685	805.705	GPR-14660
2448908.768	310693.021	841.939	GPR-14661
2448923.867	309790.499	812.154	GPR-14662
2448908.999	310689.858	841.863	GPR-14663
2448924.347	309790.18	812.086	GPR-14665
2448909.584	310681.457	841.251	GPR-14667
2446637.244	310415.773	790.608	GPR-1467
2448913.423	310472.839	836.56	GPR-14673
2448909.995	310678.151	840.831	GPR-14674
2448913.452	310472.876	836.555	GPR-14676
2448910.037	310679.135	840.947	GPR-14677
2448913.542	310472.768	836.58	GPR-14679
2446640.588	310230.592	788.631	GPR-1468
2448913.701	310473.936	836.651	GPR-14680
2448913.806	310476.486	836.783	GPR-14683
2448927.508	309657.676	803.127	GPR-14684
2448926.628	309710.378	805.511	GPR-14686
2448910.697	310675.141	841.033	GPR-14692
2448927.786	309658.773	803.25	GPR-14694
2448927.733	309661.939	803.468	GPR-14695
2448919.95	310128.069	822.251	GPR-14698
2448914.271	310480.644	837.078	GPR-14702
2448919.906	310144.924	826.393	GPR-14703
2448927.936	309665.765	803.594	GPR-14704
2448920.144	310144.892	826.281	GPR-14708
2448926.116	309789.008	812.258	GPR-14709
2448920.181	310144.455	826.404	GPR-14710
2448914.751	310483.82	837.395	GPR-14712
2448926.412	309788.976	812.342	GPR-14713
2448928.093	309706.07	805.324	GPR-14716
2448912.121	310667.993	840.886	GPR-14718
2446635.031	310597.077	798.349	GPR-1472
2448915.394	310486.16	837.841	GPR-14721
2448915.439	310499.45	838.48	GPR-14725
2448928.76	309703.424	805.235	GPR-14727
2448915.832	310488.352	838.133	GPR-14730
2448915.635	310501.892	838.514	GPR-14733
2448915.867	310491.593	838.235	GPR-14735
2448913.064	310662.948	840.536	GPR-14738
2448915.987	310489.702	838.127	GPR-14739
2446632.848	310739.172	794.171	GPR-1474
2448916.015	310493.343	838.271	GPR-14744
2448916.094	310490.395	838.055	GPR-14747
2448916.014	310496.947	838.478	GPR-14749
2448916.098	310495.492	838.365	GPR-14753
2448922.159	310144.925	827.161	GPR-14758
2448916.189	310505.979	838.576	GPR-14759
2446640.512	310290.444	791.873	GPR-1476
2448929.898	309699.183	804.926	GPR-14763
2448913.982	310657.685	840.203	GPR-14765
2448916.517	310509.443	838.718	GPR-14766
2448928.884	309788.289	812.449	GPR-14771
2448931.286	309672.884	804.268	GPR-14776
2448914.985	310650.93	840.097	GPR-14778
2448917.565	310517.688	839.141	GPR-14784
2448915.632	310645.88	840.005	GPR-14787
2448930.098	309797.266	812.858	GPR-14793
2448918.161	310526.399	839.576	GPR-14797
2448924.898	310126.44	822.198	GPR-14798
2448932.322	309688.92	804.676	GPR-14800
2448916.463	310640.506	839.944	GPR-14802
2448930.829	309787.23	812.312	GPR-14805
2448928.869	309915.239	820.698	GPR-14813
2448928.807	309924.303	821.067	GPR-14818
2448916.975	310636.473	840.018	GPR-14823
2448928.142	309978.356	823.277	GPR-14824
2448918.865	310533.911	839.568	GPR-14826
2448925.407	310145.671	827.981	GPR-14829

2448917.237	310634.985	840.089	GPR-14830
2448929.199	309931.008	821.397	GPR-14839
2446638.747	310478.745	795.574	GPR-1484
2448919.043	310539.229	839.837	GPR-14840
2448917.474	310633.205	840.159	GPR-14841
2448929.719	309905.205	820.242	GPR-14844
2448917.743	310631.316	840.226	GPR-14847
2448932.457	309760.717	810.274	GPR-14852
2446633.477	310801.183	796.792	GPR-1486
2448931.188	309852.695	816.586	GPR-14863
2448919.65	310545.501	839.797	GPR-14865
2446640.974	310353.653	791.6	GPR-1487
2448930.018	309935.209	821.545	GPR-14870
2448920.078	310550.059	839.868	GPR-14878
2448932.057	309834.397	815.635	GPR-14879
2446636.053	310649.775	796.868	GPR-1488
2448932.177	309834.29	815.62	GPR-14881
2448931.772	309858.566	817.31	GPR-14883
2448920.177	310552.974	839.891	GPR-14884
2448930.512	309937.584	821.676	GPR-14888
2446634.034	310771.266	795.2	GPR-1489
2448931.791	309862.753	817.61	GPR-14890
2448931.345	309889.468	819.203	GPR-14891
2448919.1	310624.604	840.16	GPR-14893
2446634.605	310738.692	794.234	GPR-1490
2448931.826	309867.741	817.971	GPR-14902
2448928.901	310051.801	824.497	GPR-14909
2446635.866	310671.725	799.434	GPR-1491
2448928.901	310051.801	824.558	GPR-14910
2448928.901	310051.801	824.586	GPR-14911
2448930.851	309938.609	821.734	GPR-14913
2448928.963	310051.656	824.438	GPR-14914
2448932.686	309832.223	815.344	GPR-14918
2448932.686	309832.223	815.314	GPR-14919
2448932.686	309832.223	815.314	GPR-14920
2448932.63	309835.571	815.587	GPR-14924
2448932.003	309873.132	818.364	GPR-14925
2448932.67	309840.305	815.754	GPR-14935
2448932.572	309846.165	816.464	GPR-14936
2448920.732	310558.808	840.204	GPR-14942
2448932.125	309881.799	818.979	GPR-14946
2448928.123	310125.074	822.583	GPR-14948
2448920.986	310563.108	840.291	GPR-14952
2448920.183	310618.323	840.069	GPR-14955
2448921.141	310566.242	840.435	GPR-14958
2448928.207	310146.628	828.556	GPR-14960
2448921.366	310568.794	840.553	GPR-14962
2448921.767	310571.385	840.608	GPR-14966
2448931.941	309963.857	822.578	GPR-14967
2446641.421	310353.515	791.494	GPR-1497
2448928.982	310146.386	828.131	GPR-14970
2448921.253	310612.844	840.267	GPR-14971
2448932.47	309944.606	822.239	GPR-14976
2448930.817	310047.172	824.498	GPR-14981
2448922.118	310573.466	840.595	GPR-14982
2448921.982	310608.232	840.303	GPR-14991
2448922.598	310576.642	840.629	GPR-14993
2448922.122	310605.177	840.26	GPR-14994
2448935.838	309792.629	812.597	GPR-14997
2448922.404	310600.703	840.327	GPR-14999
2446638.543	310546.276	802.392	GPR-1500
2448922.891	310578.613	840.668	GPR-15000
2448922.992	310579.707	840.662	GPR-15003
2448922.814	310597.434	840.351	GPR-15004
2448923.162	310581.93	840.648	GPR-15006
2448923.261	310583.097	840.633	GPR-15010
2448923.143	310593.726	840.388	GPR-15013
2448923.367	310590.926	840.461	GPR-15016
2448932.611	310040.904	824.289	GPR-15017
2448930.857	310145.944	827.861	GPR-15018
2448923.497	310586.741	840.533	GPR-15019
2446633.78	310841.854	797.01	GPR-1502
2448937.314	309784.061	811.668	GPR-15023
2448937.175	309831.46	815.754	GPR-15028
2448935.25	309950.332	822.695	GPR-15029
2448934.589	310034.275	824.298	GPR-15038
2448933.295	310125.998	822.595	GPR-15039
2448934.513	310145.386	827.326	GPR-15044
2448936.611	310026.809	824.182	GPR-15045
2448941.906	309754.103	809.502	GPR-15048
2448938.574	310019.305	824.238	GPR-15050
2448943.82	309827.64	815.432	GPR-15058
2448940.769	310012.134	824.13	GPR-15059
2448944.726	309780.508	810.666	GPR-15060
2448945.979	309783.551	811.266	GPR-15066
2448940.5	310127.683	822.414	GPR-15067
2448942.906	310004.888	824.003	GPR-15069
2448941.651	310095.993	822.746	GPR-15072
2446636.225	310764.24	794.01	GPR-1508
2448947.994	309781.837	810.901	GPR-15080
2448945.008	309996.185	823.643	GPR-15083
2448943.411	310145.025	827.005	GPR-15087
2448947.473	309988.8	823.789	GPR-15092
2448946.123	310129.998	822.509	GPR-15094
2448951.343	309824.489	814.859	GPR-15096
2446526.106	310287.632	788.181	GPR-151
2446645.205	310229.249	788.685	GPR-1510
2448950.079	309978.285	823.878	GPR-15104
2448951.4	309970.189	823.471	GPR-15107
2448955.786	309775.013	809.246	GPR-15113
2448952.908	309963.297	823.413	GPR-15115
2448953.879	309954.866	822.934	GPR-15120

2448942.505	310650.224	842.177	GPR-15123
2448942.4	310660.052	842.311	GPR-15126
2448942.204	310671.808	842.243	GPR-15127
2448942.162	310676.104	842.215	GPR-15131
2448942.1	310679.78	842.115	GPR-15132
2448942.337	310667.369	842.299	GPR-15133
2448942.089	310682.255	842.009	GPR-15135
2448951.184	310144.645	827.062	GPR-15138
2448942.507	310664.277	842.35	GPR-15139
2448942.322	310686.045	841.965	GPR-15144
2448942.563	310689.326	841.923	GPR-15148
2448951.914	310131.151	822.663	GPR-15149
2446638.41	310707.7	796.023	GPR-1515
2448955.128	309945.749	821.929	GPR-15152
2448942.67	310691.84	841.761	GPR-15155
2448942.669	310691.876	841.766	GPR-15156
2448942.701	310691.767	841.838	GPR-15157
2448943.821	310630.004	842.445	GPR-15158
2448945.888	310507.967	839.409	GPR-15161
2448945.888	310507.967	839.45	GPR-15162
2448945.918	310507.968	839.423	GPR-15163
2448945.969	310508.478	839.508	GPR-15165
2448945.974	310509.935	839.589	GPR-15167
2448943.826	310638.56	842.532	GPR-15169
2448957.584	309821.753	814.355	GPR-15171
2448946.117	310512.049	839.662	GPR-15172
2448946.377	310514.201	839.754	GPR-15175
2446641.902	310510.071	797.233	GPR-1518
2448956.233	309938.195	821.539	GPR-15181
2448946.666	310516.427	839.892	GPR-15182
2448945.331	310599.921	841.868	GPR-15185
2448945.051	310616.663	842.316	GPR-15188
2446645.983	310269.856	792.86	GPR-1519
2448945.249	310608.402	842.177	GPR-15191
2448945.813	310587.041	841.524	GPR-15194
2448945.704	310593.593	841.709	GPR-15197
2446637.169	310800.225	797.179	GPR-1520
2448959.456	309773.546	809.668	GPR-15201
2448946.002	310582.821	841.342	GPR-15202
2448947.124	310519.165	839.938	GPR-15204
2448946.423	310573.581	840.765	GPR-15208
2446640.661	310597.244	798.29	GPR-1521
2448947.408	310521.682	840.294	GPR-15210
2448946.718	310564.812	840.455	GPR-15211
2448957.411	309931.516	821.184	GPR-15212
2448947.686	310524.599	840.246	GPR-15214
2448948.05	310524.095	840.452	GPR-15218
2448947.499	310557.07	840.173	GPR-15220
2448948.043	310528.027	840.218	GPR-15222
2448948.198	310534.728	840.127	GPR-15224
2448961.667	309738.778	808.586	GPR-15228
2448948.136	310549.108	840.145	GPR-15229
2446638.417	310737.627	794.336	GPR-1523
2448958.71	309924.73	820.765	GPR-15233
2448948.465	310541.832	840.48	GPR-15234
2448956.095	310131.075	822.709	GPR-15238
2448960.258	309917.256	819.933	GPR-15240
2448962.069	309911.789	819.638	GPR-15245
2448959.484	310093.196	823.16	GPR-15247
2448963.559	309907.772	819.496	GPR-15248
2448959.641	310144.131	827.187	GPR-15249
2446645.964	310288.787	792.078	GPR-1525
2448960.393	310131.074	822.759	GPR-15250
2448966.587	309769.041	809.757	GPR-15252
2448966.666	309817.572	813.833	GPR-15256
2448965.612	309901.982	819.198	GPR-15259
2448968.139	309768.375	809.054	GPR-15261
2448962.338	310144.176	827.208	GPR-15262
2448963.223	310093.003	825.312	GPR-15263
2448963.201	310094.277	825.32	GPR-15267
2448963.23	310094.314	825.331	GPR-15269
2448964.037	310131.244	822.776	GPR-15276
2448954.846	310688.694	841.827	GPR-15279
2448954.846	310688.694	841.827	GPR-15280
2448954.846	310688.694	841.827	GPR-15281
2448954.876	310688.694	841.807	GPR-15285
2448965.026	310086.189	825.362	GPR-15293
2448969.074	309893.484	818.944	GPR-15305
2446645.535	310352.09	792.062	GPR-1531
2448956.222	310671.97	842.493	GPR-15311
2448966.715	310079.118	825.275	GPR-15316
2446637.437	310841.15	797.209	GPR-1532
2448972.399	309765.352	809.549	GPR-15321
2448970.871	309888.854	818.753	GPR-15325
2448968.917	310030.698	824.543	GPR-15330
2448969.24	310023.786	824.288	GPR-15333
2448970.018	309991.36	821.615	GPR-15338
2446642.121	310561.116	799.225	GPR-1534
2448970.165	309991.472	821.931	GPR-15348
2448970.164	309991.509	822.126	GPR-15349
2446639.689	310707.43	796.064	GPR-1535
2448959.32	310651.561	842.366	GPR-15355
2448970.173	310008.729	823.783	GPR-15357
2446643.847	310478.648	795.928	GPR-1536
2448969.694	310044.545	824.62	GPR-15361
2448968.297	310131.716	822.814	GPR-15363
2448970.707	309990.935	823.626	GPR-15365
2448972.496	309885.604	818.61	GPR-15367
2448970.738	309990.899	823.577	GPR-15369
2448970.655	309997.597	823.735	GPR-15371
2448969.515	310071.192	825.508	GPR-15373
2448970.896	309993.814	823.688	GPR-15376

```
2446637.346 310875.189  797.766 GPR-1538
2448972.957 309884.629  818.593 GPR-15380
2448969.665 310145.646  827.729 GPR-15389
2448971.161 310057.858  825.384 GPR-15391
2448975.336 309813.166  812.874 GPR-15394
2448962.047 310630.272  842.389 GPR-15396
2446645.057 310416.558  790.802 GPR-1540
2448975.181 309881.026  818.37  GPR-15403
2448964.646 310531.435  838.987 GPR-15405
2448964.675 310531.436  838.989 GPR-15407
2448971.578 310132.28   822.882 GPR-15411
2448963.672 310611.077  842.485 GPR-15413
2448978.659 309763.308  808.756 GPR-15421
2448979.771 309760.633  809.318 GPR-15431
2448977.87  309877.976  818.077 GPR-15433
2448966.987 310561.655  840.92  GPR-15440
2448967.281 310577.788  841.243 GPR-15451
2448975.009 310146.973  828.258 GPR-15456
2448979.558 309876.329  817.855 GPR-15457
2448976.689 310097.816  824.078 GPR-15462
2448977.139 310133.028  822.974 GPR-15466
2448981.537 309874.943  817.68  GPR-15467
2448984.458 309756.852  809.34  GPR-15474
2448983.651 309808.754  812.141 GPR-15475
2448984.048 309873.71   817.519 GPR-15477
2448984.948 309873.07   817.325 GPR-15482
2448987.727 309754.577  809.425 GPR-15486
2448981.429 310147.699  828.49  GPR-15489
2448986.718 309871.825  817.133 GPR-15490
2448984.896 309989.789  820.571 GPR-15493
2448989.053 309804.767  811.334 GPR-15498
2448990.798 309721.571  809.81  GPR-15500
2448989.476 309869.978  817.085 GPR-15504
2448985.987 310133.94   823.306 GPR-15508
2446644.021 310546.658  802.615 GPR-1551
2448986.716 310102.679  825.704 GPR-15513
2448993.719 309754.385  808.728 GPR-15527
2448994.566 309749.776  809.237 GPR-15534
2448988.081 310148.757  828.749 GPR-15536
2448990.499 310082.1    824.123 GPR-15542
2448996.88  309717.704  810.15  GPR-15545
2448995.927 309797.855  810.314 GPR-15548
2448990.245 310148.756  828.495 GPR-15552
2448990.511 310148.797  828.266 GPR-15555
2448990.542 310148.761  828.092 GPR-15558
2448990.542 310148.761  827.981 GPR-15559
2448996.063 309866.083  817.26  GPR-15563
2448991.649 310133.926  823.654 GPR-15565
2446641.962 310736.52   794.466 GPR-1557
2448999.098 309746.466  809.103 GPR-15570
2448994.062 310060.461  824.079 GPR-15572
2448999.21  309863.988  817.31  GPR-15582
2449001.662 309791.726  810.099 GPR-15589
2449003.384 309713.444  810.14  GPR-15590
2449003.815 309742.685  809.039 GPR-15593
2449003.564 309789.646  810.021 GPR-15596
2449002.594 309861.933  817.497 GPR-15598
2448998.084 310132.031  823.851 GPR-15599
2446641.716 310762.074  794.295 GPR-1560
2448999.007 310105.142  824.956 GPR-15601
2449000.567 310020.632  822.422 GPR-15603
2449006.044 309747.638  808.434 GPR-15609
2449006.243 309860.028  817.596 GPR-15617
2449008.319 309739.266  809.138 GPR-15618
2449008.521 309783.976  809.634 GPR-15619
2446650.833 310227.741  788.491 GPR-1562
2449011.806 309707.941  810.21  GPR-15626
2449007.259 309996.206  821.718 GPR-15629
2446648.815 310350.907  792.092 GPR-1563
2449010.261 309857.292  817.514 GPR-15632
2449012.678 309744.508  808.792 GPR-15635
2449012.128 309779.194  809.312 GPR-15636
2449009.274 309985.572  820.947 GPR-15640
2449010.073 309978.595  819.91  GPR-15645
2449007.961 310131.65   825.101 GPR-15649
2446645.369 310560.078  799.353 GPR-1565
2449013.446 309854.687  817.613 GPR-15655
2449015.634 309743.21   808.764 GPR-15656
2449015.797 309774.304  809.005 GPR-15659
2449018.684 309741.623  808.801 GPR-15669
2446643.688 310670.144  799.76  GPR-1567
2449017.463 309852.024  818.059 GPR-15672
2449019.027 309770.827  808.769 GPR-15673
2449020.633 309701.281  809.992 GPR-15678
2449013.932 310132.696  825.216 GPR-15681
2449021.362 309730.418  809.152 GPR-15686
2449021.447 309767.882  808.669 GPR-15691
2449022.784 309739.325  808.84  GPR-15695
2449021.569 309849.362  818.151 GPR-15698
2449023.792 309728.675  809.101 GPR-15700
2449025.479 309737.732  808.909 GPR-15706
2449018.989 310133.399  826.335 GPR-15709
2449024.325 309847.624  817.596 GPR-15712
2449027.037 309726.071  808.978 GPR-15715
2446649.437 310350.99   791.957 GPR-1572
2449021.092 310112.209  826.726 GPR-15720
2449025.672 309846.846  817.455 GPR-15722
2449027.909 309735.989  808.865 GPR-15726
2449027.561 309762.159  808.667 GPR-15727
2446649.436 310351.027  791.995 GPR-1573
2449021.953 310117.43   828.057 GPR-15731
2446649.466 310351.027  792.065 GPR-1574
```

```
2449022.669 310133.133  826.426 GPR-15742
2449030.523 309693.072  810.245 GPR-15747
2446646.917 310509.717  797.18  GPR-1575
2449028.004 309845.647  817.624 GPR-15750
2449028.341 309844.997  817.482 GPR-15752
2449028.405 309844.707  817.434 GPR-15753
2449028.442 309844.307  817.266 GPR-15754
2449024.869 310091.958  826.451 GPR-15762
2449031.001 309733.674  808.862 GPR-15765
2446641.512 310840.308  797.323 GPR-1577
2449023.971 310179.464  827.381 GPR-15774
2449024.089 310179.466  827.877 GPR-15776
2449027.669 309972.227  819.579 GPR-15778
2446645.641 310599.001  798.279 GPR-1578
2449030.291 309843.646  817.261 GPR-15782
2449027.027 310062.14   825.067 GPR-15789
2446645.139 310647.05   797.481 GPR-1580
2449028.588 310036.136  824.357 GPR-15801
2449027.289 310113.915  826.998 GPR-15803
2449029.626 310002.368  823.859 GPR-15816
2449029.932 309987.592  821.922 GPR-15817
2446651.485 310286.585  792.071 GPR-1582
2449027.574 310134.125  826.812 GPR-15820
2449035.641 309720.317  808.983 GPR-15828
2449033.693 309842.283  816.978 GPR-15829
2449035.251 309752.531  808.674 GPR-15830
2449029.946 310114.542  827.003 GPR-15834
2446643.326 310798.944  797.182 GPR-1584
2449036.813 309729.985  808.896 GPR-15840
2449035.072 309841.323  817.005 GPR-15844
2449035.134 309841.179  816.878 GPR-15846
2449036.971 309750.739  808.673 GPR-15851
2449038.987 309748.952  808.752 GPR-15855
2449037.671 309840.129  816.741 GPR-15857
2446649.064 310478.662  796.153 GPR-1586
2449039.982 309717.768  808.876 GPR-15860
2449033.211 310135.603  827.001 GPR-15861
2449041.834 309727.556  808.936 GPR-15869
2449035.503 310186.501  830.013 GPR-15875
2449043.639 309715.354  808.974 GPR-15876
2446647.845 310559.136  799.562 GPR-1588
2449044.294 309745.327  808.944 GPR-15883
2449046.149 309680.409  809.719 GPR-15888
2446651.386 310349.603  791.583 GPR-1589
2449044.287 309836.271  816.495 GPR-15890
2449046.443 309724.939  808.83  GPR-15892
2449049.01  309711.475  808.723 GPR-15901
2449048.803 309723.85   808.938 GPR-15902
2449042.015 310137.388  826.486 GPR-15903
2449045.047 309964.69   819.291 GPR-15904
2449047.688 309833.233  815.609 GPR-15907
2449042.288 310192.039  830.556 GPR-15910
2449050.664 309722.498  808.695 GPR-15911
2449051.174 309741.62   808.84  GPR-15916
2449045.65  310118.554  826.955 GPR-15918
2449053.16  309707.94   808.665 GPR-15921
2449053.661 309720.545  808.556 GPR-15923
2449052.206 309830.724  815.227 GPR-15927
2449056.385 309718.953  808.536 GPR-15933
2449058.169 309672.455  809.822 GPR-15937
2446643.3   310873.65   798.132 GPR-1594
2449058.175 309704.056  808.64  GPR-15940
2449058.868 309717.611  808.519 GPR-15943
2449052.135 310138.467  826.537 GPR-15944
2449058.414 309826.386  814.969 GPR-15947
2449061.451 309701.38   808.58  GPR-15951
2449054.063 310198.716  830.943 GPR-15955
2449056.281 310120.952  827.29  GPR-15958
2449063.57  309714.704  808.295 GPR-15961
2449064.786 309668.561  809.899 GPR-15963
2449064.272 309699.279  808.647 GPR-15964
2449064.499 309714.1    808.285 GPR-15968
2449063.221 309822.607  814.496 GPR-15971
2449057.932 310141.04   826.726 GPR-15972
2449065.934 309713.36   808.42  GPR-15977
2449066.137 309733.205  809.098 GPR-15981
2449059.306 310142.155  827.551 GPR-15982
2449059.306 310142.155  827.081 GPR-15983
2449063.866 309952.589  821.426 GPR-15988
2449068.2   309696.651  808.709 GPR-15989
2446652.546 310349.404  791.599 GPR-1599
2449068.139 309712.741  808.717 GPR-15992
2449070.099 309664.572  809.898 GPR-15999
2449068.521 309819.383  814.126 GPR-16003
2449070.523 309711.98   808.581 GPR-16005
2446651.554 310418.013  790.944 GPR-1601
2449072.879 309728.876  808.822 GPR-16014
2449073.5   309693.463  808.67  GPR-16015
2449073.243 309710.606  808.507 GPR-16017
2446654.786 310227.115  788.274 GPR-1602
2449068.114 310047.9    824.165 GPR-16020
2449072.618 309817.267  813.971 GPR-16023
2449068.856 310049.623  823.543 GPR-16024
2449075.939 309708.976  808.54  GPR-16028
2446645.854 310769.934  795.603 GPR-1603
2449069.096 310123.97   827.574 GPR-16030
2449068.049 310207.942  830.742 GPR-16034
2449079.143 309657.332  810.182 GPR-16039
2449071.295 310128.994  829.169 GPR-16040
2449071.325 310128.958  829.191 GPR-16042
2449071.384 310128.959  829.17  GPR-16044
2449071.476 310128.779  829.133 GPR-16047
```

2449071.632	310128.308	829.124	GPR-16049
2449078.459	309724.928	808.989	GPR-16050
2449072.255	310124.751	828.979	GPR-16054
2449072.948	310093.889	826.164	GPR-16056
2449073.138	310087.849	825.894	GPR-16060
2449077.937	309814.734	813.757	GPR-16063
2449073.225	310100.374	826.45	GPR-16064
2449072.948	310120.503	828.675	GPR-16067
2449073.645	310082.324	825.563	GPR-16068
2449073.788	310080.87	825.465	GPR-16069
2446655.168	310266.55	793.202	GPR-1607
2449073.339	310116.65	828.351	GPR-16072
2449073.731	310107.373	827.086	GPR-16074
2449073.695	310114.836	828.291	GPR-16076
2446647.928	310705.783	796.326	GPR-1608
2449074.002	310110.654	827.432	GPR-16081
2449074.252	310111.678	828.125	GPR-16082
2449081.256	309706.553	808.638	GPR-16084
2449074.667	310111.684	827.756	GPR-16087
2449081.807	309687.74	808.707	GPR-16088
2449075.315	310078.165	822.816	GPR-16090
2449075.615	310065.573	825.186	GPR-16091
2449082.525	309722.811	809.025	GPR-16094
2449077.347	310048.819	824.476	GPR-16097
2449079.739	309941.095	821.221	GPR-16101
2449083.116	309811.69	813.7	GPR-16107
2449085.799	309684.785	809.24	GPR-16110
2449078.942	310127.265	827.268	GPR-16113
2449086.241	309720.471	809.117	GPR-16116
2449087.89	309650.124	810.505	GPR-16117
2449081.899	310030.109	824.311	GPR-16120
2449088.457	309703.105	808.658	GPR-16126
2449081.985	310119.015	826.22	GPR-16129
2449080.401	310215.612	831.157	GPR-16130
2449083.006	310112.88	824.17	GPR-16135
2449088.234	309808.753	813.473	GPR-16138
2446650.13	310600.022	798.604	GPR-1614
2449085.571	310021.433	825.029	GPR-16145
2449091.674	309679.131	809.319	GPR-16146
2446651.693	310509.542	797.018	GPR-1615
2449084.811	310134.353	825.873	GPR-16151
2449092.314	309717.113	809.082	GPR-16154
2449085.633	310129.525	827.171	GPR-16157
2449091.138	309807.091	813.327	GPR-16158
2446654.394	310348.779	791.632	GPR-1616
2449089.451	310012.796	825.36	GPR-16166
2446646.988	310797.985	797.332	GPR-1617
2449090.57	310009.648	825.181	GPR-16177
2449096.945	309642.193	810.578	GPR-16180
2449088.793	310130.269	827.228	GPR-16182
2449094.252	309805.177	813.249	GPR-16183
2449088.939	310130.381	827.406	GPR-16184
2449088.968	310130.454	827.638	GPR-16186
2449088.967	310130.491	827.757	GPR-16188
2446646.66	310839.156	797.645	GPR-1619
2449096.357	309698.723	808.395	GPR-16191
2449088.98	310154.556	827.364	GPR-16193
2449097.487	309673.658	809.959	GPR-16194
2449092.843	310004.916	824.768	GPR-16199
2449097.969	309714.004	809.041	GPR-16200
2446648.46	310734.371	794.837	GPR-1621
2449094.874	310000.472	824.692	GPR-16210
2449091.747	310219.624	831.684	GPR-16212
2449096.146	309997.071	824.614	GPR-16216
2449093.268	310180.003	827.771	GPR-16219
2449097.569	309993.527	824.267	GPR-16225
2446649.963	310668.901	799.793	GPR-1623
2449098.458	309990.011	823.979	GPR-16233
2449099.083	309986.308	823.737	GPR-16237
2449095.487	310203.34	828.438	GPR-16238
2446652.066	310545.918	803.041	GPR-1624
2449105.481	309635.2	810.871	GPR-16243
2449103.253	309800.522	812.658	GPR-16245
2449105.552	309668.222	810.178	GPR-16246
2449100.617	309981.418	822.958	GPR-16249
2446646.701	310872.323	798.409	GPR-1625
2449096.815	310223.24	831.887	GPR-16253
2449097.559	310219.503	828.79	GPR-16263
2449097.743	310220.926	831.902	GPR-16267
2446656.639	310285.032	791.944	GPR-1627
2449097.848	310223.512	829.258	GPR-16271
2449102.14	309978.968	822.743	GPR-16275
2449107.253	309695.956	809.026	GPR-16279
2449102.864	309978.216	823.096	GPR-16280
2449108.46	309666.232	809.957	GPR-16283
2449107.868	309708.781	809.001	GPR-16284
2449103.583	309977.754	823.323	GPR-16287
2446650.841	310646.416	797.882	GPR-1629
2449110.198	309631.456	811.511	GPR-16291
2449102.13	310114.437	829.249	GPR-16293
2446527.265	310266.063	790.39	GPR-163
2446649.115	310759.211	793.877	GPR-1630
2449103.441	310076.778	827.259	GPR-16300
2449103.226	310093.194	827.892	GPR-16302
2449108.378	309811.384	814.236	GPR-16304
2449108.643	309797.299	812.471	GPR-16305
2449103.648	310130.044	829.942	GPR-16312
2449106.242	309976.488	823.564	GPR-16313
2449108.866	309821.221	814.869	GPR-16314
2449103.614	310139.182	830.014	GPR-16315
2449109.352	309806.303	813.397	GPR-16318
2449106.688	309976.423	823.647	GPR-16324

2449107.751	309923.469	821.84	GPR-16326
2449110.024	309828.194	814.181	GPR-16328
2449106.733	310046.506	826.604	GPR-16330
2449112.969	309694.449	809.139	GPR-16335
2449111.397	309795.706	812.412	GPR-16336
2449111.427	309795.67	812.399	GPR-16337
2449108.831	309975.912	823.746	GPR-16341
2449111.967	309797.063	811.957	GPR-16343
2449114.251	309662.069	810.499	GPR-16344
2449111.396	309840.086	813.931	GPR-16346
2449112.656	309794.854	811.192	GPR-16352
2449109.939	310028.502	826.133	GPR-16360
2449116.127	309693.519	809.363	GPR-16362
2449117.886	309625.505	811.754	GPR-16364
2449112.294	309974.478	823.866	GPR-16367
2449117.494	309702.207	808.346	GPR-16370
2449115.889	309847.952	816.066	GPR-16374
2449119.108	309692.55	809.573	GPR-16378
2449121.121	309657.232	810.845	GPR-16384
2449118.251	309915.963	822.125	GPR-16392
2449119.363	309854.709	817.715	GPR-16394
2449116.963	310012.6	825.345	GPR-16395
2449123.968	309690.883	809.741	GPR-16402
2449125.302	309619.876	812.154	GPR-16404
2449122.278	309861.238	819.629	GPR-16409
2449126.088	309689.972	809.844	GPR-16416
2449126.178	309689.864	809.795	GPR-16417
2446649.904	310768.763	795.692	GPR-1642
2449126.518	309689.069	809.571	GPR-16420
2449123.721	309865.376	820.63	GPR-16422
2449126.862	309691.514	808.848	GPR-16424
2449124.668	309868.996	821.611	GPR-16432
2449128.906	309617.097	812.549	GPR-16433
2449127.797	309690.583	809.632	GPR-16438
2449127.797	309690.583	809.618	GPR-16439
2446657.921	310302.419	791.629	GPR-1644
2449129.154	309616.446	812.24	GPR-16443
2449127.946	309690.549	809.04	GPR-16448
2449125.514	309875.163	822.884	GPR-16459
2449126.349	309880.165	822.637	GPR-16463
2449124.439	309999.837	824.812	GPR-16465
2446657.525	310347.666	791.66	GPR-1647
2449124.778	309999.079	824.381	GPR-16470
2449131.821	309618.274	811.835	GPR-16476
2449127.768	309887.506	822.386	GPR-16478
2446654.043	310557.201	800.089	GPR-1648
2449125.436	310144.206	830.78	GPR-16487
2449125.466	310144.207	830.696	GPR-16490
2449129.677	309893.873	822.461	GPR-16492
2449125.551	310144.427	830.549	GPR-16494
2449125.569	310145.119	830.479	GPR-16496
2449134.187	309648.75	811.15	GPR-16497
2449126.423	310140.182	829.395	GPR-16500
2449127.295	310135.864	828.781	GPR-16506
2446659.99	310226.073	788.21	GPR-1651
2449127.855	310127.172	827.715	GPR-16510
2449128.781	310107.273	826.211	GPR-16518
2449128.625	310116.554	826.916	GPR-16519
2446655.853	310478.593	796.281	GPR-1652
2449132.48	309900.036	822.511	GPR-16521
2449129.371	310094.977	825.649	GPR-16526
2449129.572	310093.597	825.607	GPR-16527
2449137.629	309627.291	812.303	GPR-16530
2449130.698	310081.201	824.949	GPR-16540
2449133.706	309902.896	822.734	GPR-16541
2449133.766	309904.644	822.91	GPR-16543
2449131.457	310067.707	824.637	GPR-16549
2449132.371	310052.031	824.129	GPR-16558
2449133.792	310036.182	823.756	GPR-16564
2449135.613	310024.781	823.25	GPR-16574
2449136.093	309997.811	822.632	GPR-16575
2449136.441	310003.606	822.559	GPR-16580
2449136.787	310004.194	822.783	GPR-16586
2449143.069	309633.462	812.719	GPR-16588
2449136.854	310014.353	823.106	GPR-16591
2449138.568	309989.843	822.927	GPR-16601
2449139.381	309987.345	822.899	GPR-16608
2449145.836	309636.42	812.654	GPR-16612
2449146.627	309640.511	811.921	GPR-16616
2449147.265	309639.612	812.42	GPR-16624
2449147.263	309639.721	811.915	GPR-16629
2449147.295	309639.576	812.575	GPR-16631
2449147.294	309639.648	812.504	GPR-16633
2449147.323	309639.685	812.369	GPR-16638
2446652.843	310732.879	795.11	GPR-1664
2449147.383	309639.65	812.576	GPR-16647
2449147.38	309639.795	812.774	GPR-16654
2449147.415	309639.505	812.911	GPR-16658
2449147.412	309639.687	812.833	GPR-16661
2449147.41	309639.796	812.716	GPR-16666
2446653.429	310704.71	796.522	GPR-1667
2449147.444	309639.542	812.989	GPR-16673
2449147.443	309639.578	812.91	GPR-16679
2449147.439	309639.796	812.527	GPR-16685
2449147.471	309639.688	812.305	GPR-16691
2449143.433	309978.966	821.3	GPR-16698
2446656.772	310508.934	796.884	GPR-1670
2449144.761	309975.821	820.443	GPR-16705
2449147.396	310139.258	828.8	GPR-16713
2449147.626	310145.014	829.318	GPR-16722
2449147.737	310145.452	829.231	GPR-16728
2446653.498	310732.671	795.168	GPR-1676

2449150.205	310081.163	825.544	GPR-16761
2449149.815	310118.692	827.487	GPR-16770
2446659.97	310346.833	791.693	GPR-1678
2449151.815	310059.273	824.955	GPR-16785
2449153.076	310038.834	824.628	GPR-16795
2446655.893	310601.065	798.505	GPR-1680
2449154.621	310013.776	823.273	GPR-16806
2449155.357	309999.844	822.667	GPR-16815
2449156.268	309982.603	821.764	GPR-16823
2446651.518	310871.42	798.612	GPR-1683
2449157.183	309973.953	820.852	GPR-16833
2449166.54	310196.408	829.98	GPR-16840
2449166.537	310196.59	830.019	GPR-16842
2449168.224	310111.573	824.452	GPR-16849
2446657.663	310508.804	796.85	GPR-1685
2449167.949	310165.304	827.858	GPR-16855
2449169.608	310085.492	823.227	GPR-16858
2446661.14	310301.381	791.69	GPR-1686
2449169.1	310133.65	826.38	GPR-16868
2449171.244	310033.676	823.504	GPR-16875
2449170.895	310054.568	823.389	GPR-16876
2449171.356	310035.863	823.572	GPR-16878
2449171.791	310015.155	823.308	GPR-16879
2449173.376	309987.731	823.346	GPR-16882
2449174.699	309951.091	822.977	GPR-16886
2449174.569	309962.448	823.088	GPR-16888
2449175.918	309933.127	821.461	GPR-16891
2449204.174	309984.277	826.908	GPR-16897
2449204.505	309968.009	826.888	GPR-16898
2449205.593	309931.256	825.122	GPR-16911
2449205.677	309935.117	825.447	GPR-16915
2446662.009	310263.387	793.122	GPR-1692
2449205.653	309948.951	826.431	GPR-16922
2449205.95	310190.259	833.037	GPR-16943
2449206.592	310210.366	833.47	GPR-16947
2446653.354	310796.635	797.4	GPR-1695
2449231.773	310221.927	833.33	GPR-16950
2449232.067	310220.33	833.181	GPR-16953
2449232.122	310218.838	831.156	GPR-16954
2449234.24	310205.585	832.299	GPR-16962
2449235.525	310194.357	831.535	GPR-16966
2446662.291	310283.852	792.233	GPR-1697
2449236.992	310141.992	828.096	GPR-16970
2449235.826	310220.648	831.475	GPR-16973
2449237.269	310157.397	829.284	GPR-16980
2449240.972	309941.094	822.335	GPR-16981
2449237.732	310147.429	828.814	GPR-16982
2449239.697	310127.366	826.843	GPR-16990
2449242.443	309966.567	823.314	GPR-16991
2449244.409	309992.594	823.989	GPR-16999
2446527.018	310298.788	788.74	GPR-170
2449242.592	310110.267	826.124	GPR-17000
2449242.239	310188.171	829.196	GPR-17004
2449244.549	310087.145	825.674	GPR-17006
2446658.079	310556.904	800.356	GPR-1701
2449249.75	309944.409	822.491	GPR-17011
2449248.838	310064.608	825.551	GPR-17016
2446661.696	310346.388	791.826	GPR-1702
2449248.682	310162.685	827.637	GPR-17020
2449252.269	310013.623	824.017	GPR-17023
2446654.99	310757.052	793.907	GPR-1703
2449252.248	310218.92	830.634	GPR-17034
2449256.977	310049.453	825.184	GPR-17037
2449259.237	310033.035	824.729	GPR-17040
2449258.426	310115.3	825.672	GPR-17041
2449256.979	310217.87	830.134	GPR-17044
2449256.979	310217.87	830.058	GPR-17045
2449263.608	310085.461	825.621	GPR-17051
2449263.411	310200.138	828.973	GPR-17056
2449269.259	310052.425	824.559	GPR-17063
2449273.329	310032.36	823.983	GPR-17074
2449272.224	310178.332	827.829	GPR-17077
2449275.482	310008.222	823.483	GPR-17078
2449276.659	309960.804	822.916	GPR-17079
2449276.706	309961.57	822.321	GPR-17080
2449276.755	309960.405	822.206	GPR-17082
2449276.737	309993.426	823.049	GPR-17085
2449277.298	309977.598	822.647	GPR-17087
2449281.269	310158.605	826.845	GPR-17088
2449289.746	310199.486	828.455	GPR-17096
2446664.705	310226.006	788.462	GPR-1710
2449294.678	310189.921	828.287	GPR-17105
2449303.868	310113.62	824.664	GPR-17112
2449303.765	310172.998	827.758	GPR-17114
2449309.667	310101.885	824.229	GPR-17119
2449318.944	310140.959	825.646	GPR-17126
2449320.115	310085.094	823.624	GPR-17127
2446657.823	310645.476	798.004	GPR-1713
2449325.995	310123.492	825.039	GPR-17131
2449328.711	310065.615	823.161	GPR-17134
2449332.558	310105.071	824.407	GPR-17138
2449338.347	310038.908	822.537	GPR-17144
2449340.355	310083.722	823.667	GPR-17147
2449342.312	310030.491	821.611	GPR-17149
2446660.658	310478.454	796.367	GPR-1715
2449342.018	310064.017	822.507	GPR-17153
2449342.936	310053.438	821.88	GPR-17159
2449343.131	310077.251	823.41	GPR-17165
2449343.227	310640.863	833.904	GPR-17167
2449345.844	310487.854	832.17	GPR-17174
2449345.844	310487.854	832.129	GPR-17175
2449345.844	310487.854	832.104	GPR-17176

2449345.844	310487.854	832.077	GPR-17177
2449345.842	310487.963	832.204	GPR-17178
2449343.758	310616.225	833.188	GPR-17184
2449345.896	310490.075	832.329	GPR-17185
2449343.468	310635.37	833.698	GPR-17186
2449343.664	310625.361	833.41	GPR-17189
2449345.923	310492.005	832.468	GPR-17190
2449344.048	310607.71	833.122	GPR-17191
2449342.138	310725.527	836.075	GPR-17198
2449342.138	310725.527	836.102	GPR-17199
2449342.17	310725.418	836.199	GPR-17201
2449342.65	310703.764	835.94	GPR-17205
2449343.635	310646.622	833.892	GPR-17206
2449346.22	310493.721	832.324	GPR-17208
2449342.803	310698.16	835.873	GPR-17212
2449342.362	310724.547	836.098	GPR-17213
2449344.441	310601.965	833.014	GPR-17214
2449342.77	310705.477	835.952	GPR-17219
2446663.635	310345.692	792.042	GPR-1722
2449343.671	310653.322	833.896	GPR-17221
2449342.653	310721.385	835.702	GPR-17227
2449344.852	310596.875	832.939	GPR-17237
2449343.664	310669.741	833.742	GPR-17240
2449343.813	310662.571	833.94	GPR-17241
2449343.797	310663.554	833.927	GPR-17242
2449343.288	310694.018	835.504	GPR-17243
2449342.926	310715.637	835.861	GPR-17244
2449343.93	310659.115	833.902	GPR-17248
2449343.817	310665.921	833.811	GPR-17250
2449346.72	310497.516	831.775	GPR-17255
2449343.792	310674.476	833.654	GPR-17259
2446656.041	310836.508	798.08	GPR-1726
2449345.437	310577.807	832.948	GPR-17262
2449345.35	310584.832	832.985	GPR-17264
2449345.284	310590.547	832.92	GPR-17265
2449343.334	310710.766	835.973	GPR-17268
2449343.821	310686.927	834.87	GPR-17272
2449343.99	310678.593	833.794	GPR-17273
2449346.869	310516.96	831.859	GPR-17280
2449346.995	310512.957	832.037	GPR-17282
2449345.999	310572.574	833.034	GPR-17284
2449347.414	310498.547	831.381	GPR-17289
2449346.281	310568.101	832.979	GPR-17293
2449347.041	310524.426	831.876	GPR-17294
2449347.474	310500.259	831.461	GPR-17295
2449346.468	310560.495	832.677	GPR-17297
2449347.369	310508.34	831.961	GPR-17299
2446657.53	310768.344	795.946	GPR-1730
2449346.418	310565.264	832.99	GPR-17301
2449347.51	310503.463	831.458	GPR-17303
2449346.504	310563.627	832.652	GPR-17304
2449347.607	310499.424	831.478	GPR-17306
2446658.784	310703.597	796.756	GPR-1731
2449346.667	310555.656	832.566	GPR-17310
2449347.65	310498.624	831.603	GPR-17311
2449346.854	310546.23	832.079	GPR-17313
2449347.072	310538.516	831.903	GPR-17318
2449346.869	310550.708	832.263	GPR-17319
2446658.12	310756.012	793.79	GPR-1732
2449347.845	310499.355	831.435	GPR-17323
2449347.348	310530.875	831.975	GPR-17326
2449371.126	310468.544	830.458	GPR-17334
2449371.156	310468.544	830.442	GPR-17336
2449371.155	310468.581	830.461	GPR-17338
2449371.227	310469.601	830.476	GPR-17340
2449371.451	310472.153	830.516	GPR-17343
2449371.709	310474.451	830.447	GPR-17345
2449372.133	310477.444	830.283	GPR-17347
2449372.141	310478.755	830.282	GPR-17348
2449372.131	310481.121	830.279	GPR-17350
2449372.115	310483.851	830.276	GPR-17352
2449372.099	310486.581	830.273	GPR-17354
2449372.301	310488.696	830.193	GPR-17356
2449372.674	310491.215	830.037	GPR-17358
2449373.219	310495.884	829.925	GPR-17361
2449373.787	310500.917	829.992	GPR-17364
2449374.118	310504.127	830.135	GPR-17368
2446659.844	310666.553	799.869	GPR-1737
2449374.543	310507.083	830.325	GPR-17371
2449374.832	310509.308	830.439	GPR-17372
2449375.113	310512.007	830.515	GPR-17375
2449375.348	310515.652	830.41	GPR-17377
2449375.611	310519.442	830.261	GPR-17379
2449375.998	310524.655	830.248	GPR-17383
2449376.3	310531.432	830.31	GPR-17387
2449373.132	310722.768	833.276	GPR-17389
2446662.614	310508.813	796.787	GPR-1739
2449373.251	310722.734	833.333	GPR-17391
2449373.28	310722.771	833.365	GPR-17393
2449373.524	310722.374	833.562	GPR-17396
2449373.642	310720.629	833.723	GPR-17397
2446666.754	310261.427	792.429	GPR-1740
2449373.831	310718.193	833.672	GPR-17400
2449376.877	310537.703	830.181	GPR-17401
2449373.966	310717.175	833.598	GPR-17402
2449374.095	310716.559	833.514	GPR-17404
2449374.249	310710.918	833.403	GPR-17406
2449377.281	310541.933	830.042	GPR-17407
2446665.367	310344.92	792.273	GPR-1741
2449374.516	310712.67	833.394	GPR-17410
2449374.587	310713.764	833.257	GPR-17413
2449377.43	310547.214	830.004	GPR-17414

2449374.742	310708.014	833.11	GPR-17415
2449375.041	310698.99	832.909	GPR-17417
2449374.993	310703.649	832.966	GPR-17418
2449377.721	310551.078	829.953	GPR-17420
2449377.642	310562.873	829.672	GPR-17424
2449377.825	310557.269	829.496	GPR-17428
2449377.375	310584.203	829.292	GPR-17431
2449377.293	310589.08	829.63	GPR-17434
2449377.074	310602.219	829.944	GPR-17435
2449377.279	310593.448	829.707	GPR-17439
2449377.302	310595.67	829.675	GPR-17443
2449377.274	310599.091	829.841	GPR-17447
2449377.658	310577.873	829.1	GPR-17449
2449377.253	310605.644	830.026	GPR-17455
2449377.16	310611.213	830.302	GPR-17456
2449377.894	310569.066	829.564	GPR-17459
2449377.01	310621.95	830.593	GPR-17462
2449377.31	310607.575	830.141	GPR-17467
2449376.954	310628.867	830.893	GPR-17469
2446662.889	310556.437	800.74	GPR-1747
2449375.969	310693.108	832.833	GPR-17472
2449376.114	310686.229	832.78	GPR-17474
2449376.516	310663.955	832.139	GPR-17475
2449376.212	310682.117	832.699	GPR-17477
2449377.392	310613.328	830.359	GPR-17479
2446663.284	310545.158	803.152	GPR-1748
2449377.36	310617.005	830.401	GPR-17482
2449376.499	310668.542	832.137	GPR-17483
2449376.878	310651.146	832.069	GPR-17486
2446659.131	310795.056	797.742	GPR-1749
2449376.812	310656.861	831.955	GPR-17490
2449377.194	310635.824	831.308	GPR-17494
2449377.158	310637.972	831.431	GPR-17496
2449377.128	310639.719	831.532	GPR-17498
2449376.78	310660.574	831.855	GPR-17500
2449376.525	310677.571	832.455	GPR-17501
2449377.035	310648.855	832.064	GPR-17502
2449376.657	310673.241	832.214	GPR-17506
2449377.2	310642.56	831.728	GPR-17507
2449377.122	310647.218	832.039	GPR-17508
2449377.213	310645.327	831.922	GPR-17509
2449398.15	310458.547	827.916	GPR-17511
2449398.53	310458.844	827.844	GPR-17517
2449398.901	310463.256	828.055	GPR-17521
2449399.6	310469.311	828.02	GPR-17526
2449400.094	310478.785	827.676	GPR-17529
2446662.442	310601.21	798.231	GPR-1753
2449400.233	310481.154	827.641	GPR-17533
2449400.512	310485.745	827.652	GPR-17538
2446668.795	310226.037	789.51	GPR-1754
2449401.097	310493.255	827.924	GPR-17543
2449401.765	310501.203	828.28	GPR-17546
2449401.933	310503.536	828.382	GPR-17548
2446661.63	310666.109	800.046	GPR-1755
2449402.344	310509.113	828.478	GPR-17551
2449402.812	310514.836	828.61	GPR-17554
2449403.03	310531.951	828.348	GPR-17563
2449403.019	310534.354	828.178	GPR-17568
2449403.049	310534.318	828.172	GPR-17571
2449403.196	310534.43	828.105	GPR-17574
2449403.196	310534.43	828.115	GPR-17575
2449403.225	310534.466	828.112	GPR-17576
2449403.225	310534.466	828.229	GPR-17577
2449403.224	310534.503	828.231	GPR-17578
2449403.367	310534.796	828.259	GPR-17581
2449403.799	310555.119	827.122	GPR-17583
2449404.711	310564.381	826.289	GPR-17586
2449404.061	310612.099	824.763	GPR-17589
2449403.886	310622.618	824.648	GPR-17593
2449404.279	310604.421	824.692	GPR-17600
2449404.877	310577.49	825.052	GPR-17607
2446662.434	310665.904	800.128	GPR-1761
2449404.144	310635.547	825.168	GPR-17616
2449404.899	310595.694	824.592	GPR-17619
2449403.889	310656.112	825.892	GPR-17620
2449403.231	310697.24	827.257	GPR-17622
2449402.942	310723.412	827.96	GPR-17625
2449404.295	310645.998	825.636	GPR-17626
2449403.879	310672.677	827.024	GPR-17628
2446665.702	310478.174	796.454	GPR-1763
2449403.221	310713.805	827.497	GPR-17631
2449403.599	310728.447	828.522	GPR-17634
2449405.461	310739.4	829.187	GPR-17638
2446669.08	310281.999	792.881	GPR-1764
2449405.564	310747.448	829.632	GPR-17641
2449405.683	310747.413	829.462	GPR-17643
2449424.635	310736.153	827.159	GPR-17645
2449425.116	310742.86	827.099	GPR-17652
2449425.233	310742.971	827.208	GPR-17654
2449426.621	310718.456	829.191	GPR-17655
2449427.759	310712.395	828.975	GPR-17656
2449429.748	310706.895	828.864	GPR-17657
2446668.2	310343.875	792.431	GPR-1766
2449431.371	310698.512	828.399	GPR-17660
2449433.287	310624.675	825.047	GPR-17662
2449433.541	310618.308	824.929	GPR-17666
2449435.079	310528.118	826.639	GPR-17668
2449433.346	310633.523	825.155	GPR-17670
2449433.748	310613.069	824.895	GPR-17672
2449435.196	310531.761	826.391	GPR-17674
2449435.429	310523.1	826.877	GPR-17675
2449434.214	310602.919	824.724	GPR-17679

```
2446663.335 310645.532  797.815 GPR-1768
2449432.984 310687.143  828.072 GPR-17684
2449436.365 310488.42   826.416 GPR-17687
2446662.59  310702.86   796.88  GPR-1769
2449436.484 310483.07   826.285 GPR-17690
2449433.37  310672.915  827.47  GPR-17693
2449435.993 310517.757  827.052 GPR-17695
2449435.688 310537.776  826.061 GPR-17699
2446659.86  310868.901  799.218 GPR-1770
2449435.362 310559.032  825.136 GPR-17704
2449434.006 310643.727  825.38  GPR-17708
2446662.049 310755.021  793.391 GPR-1771
2449434.9   310592.009  824.716 GPR-17712
2449436.6   310492.065  826.419 GPR-17714
2449436.862 310478.162  826.046 GPR-17715
2449436.305 310511.464  827.119 GPR-17717
2449433.921 310659.454  826.841 GPR-17723
2449436.674 310496.544  826.638 GPR-17724
2449436.535 310504.806  827.049 GPR-17726
2449436.668 310500.403  826.823 GPR-17730
2449435.91  310547.537  825.509 GPR-17732
2449435.8   310570.107  824.784 GPR-17736
2449437.874 310463.725  825.601 GPR-17740
2449437.762 310470.458  825.789 GPR-17741
2449435.909 310581.322  824.707 GPR-17742
2449438.092 310461.362  825.502 GPR-17745
2449438.308 310459.072  825.451 GPR-17747
2446669.215 310343.492  792.492 GPR-1775
2449438.522 310456.928  825.43  GPR-17750
2449439.231 310451.697  825.158 GPR-17751
2449439.843 310445.263  824.782 GPR-17752
2449440.046 310443.774  824.491 GPR-17754
2449440.077 310443.702  824.369 GPR-17757
2449449.235 310550.199  822.772 GPR-17758
2449449.922 310546.351  822.802 GPR-17759
2449452.026 310556.98   822.436 GPR-17760
2449455.168 310539.267  822.855 GPR-17761
2449455.794 310558.573  822.324 GPR-17762
2449461.711 310493.649  823.498 GPR-17763
2449461.799 310495.507  823.587 GPR-17764
2449462.225 310501.922  823.657 GPR-17765
2449462.034 310534.649  822.979 GPR-17768
2449462.008 310559.223  822.051 GPR-17771
2449463.126 310508.308  823.608 GPR-17773
2449463.13  310531.135  823.142 GPR-17774
2449462.746 310561.164  821.847 GPR-17775
2449463.642 310512.904  823.643 GPR-17776
2449463.494 310525.316  823.391 GPR-17777
2449463.798 310519.569  823.559 GPR-17778
2449464.419 310569.275  821.703 GPR-17780
2449464.862 310574.67   821.618 GPR-17782
2449464.922 310578.203  821.612 GPR-17783
2449465.032 310582.282  821.676 GPR-17785
2449465.069 310587.125  821.737 GPR-17787
2449465.076 310593.787  821.793 GPR-17789
2449465.091 310600.013  822.115 GPR-17790
2449465.15  310605.329  822.327 GPR-17791
2449465.411 310612.797  822.597 GPR-17794
2449465.654 310617.752  822.687 GPR-17796
2449465.901 310620.706  822.636 GPR-17797
2449466.19  310624.715  822.715 GPR-17799
2449466.318 310629.45   822.732 GPR-17800
2449466.66  310633.861  822.75  GPR-17802
2449466.925 310637.47   822.734 GPR-17803
2449466.819 310650.938  822.965 GPR-17806
2449466.885 310648.755  822.903 GPR-17811
2449466.998 310643.769  822.85  GPR-17813
2446671.78  310258.707  792.386 GPR-1782
2449467.52  310674.614  824.03  GPR-17822
2449467.635 310678.366  824.171 GPR-17824
2449467.474 310705.705  826.675 GPR-17827
2449467.798 310688.126  824.797 GPR-17829
2446667.837 310508.463  797.08  GPR-1783
2449467.294 310720.01   829.053 GPR-17831
2449468.306 310732.223  829.083 GPR-17834
2449469.986 310745.212  829.562 GPR-17835
2449470.108 310752.058  828.879 GPR-17837
2449470.161 310750.675  829.166 GPR-17839
2449470.142 310751.84   827.738 GPR-17840
2449470.138 310752.059  828.66  GPR-17842
2449474.418 310751.366  827.767 GPR-17845
2449488.388 310502.614  824.694 GPR-17848
2446664.619 310728.815  796.017 GPR-1785
2449488.387 310502.687  824.711 GPR-17851
2449488.872 310509.139  824.708 GPR-17852
2449488.595 310536.367  825.172 GPR-17853
2449488.963 310523.194  824.683 GPR-17854
2449489.34  310552.107  824.7   GPR-17855
2449488.189 310635.095  824.267 GPR-17859
2449489.645 310567.548  824.609 GPR-17863
2449489.023 310608.277  824.395 GPR-17864
2449489.575 310587.644  824.375 GPR-17865
2449488.842 310654.583  824.676 GPR-17866
2449489.023 310666.819  825.02  GPR-17867
2449487.901 310749.88   827.592 GPR-17870
2449489.379 310686.266  825.129 GPR-17878
2449488.74  310745.816  827.125 GPR-17879
2446664.283 310754.367  792.635 GPR-1788
2449489.705 310698.722  824.968 GPR-17880
2449489.439 310719.907  825.712 GPR-17883
2449489.225 310732.718  826.423 GPR-17884
2446672.078 310297.849  791.928 GPR-1789
```

```
2449508.643 310518.062  822.549 GPR-17890
2449508.844 310507.798  822.883 GPR-17891
2449509.098 310503.252  822.641 GPR-17892
2449508.588 310537.32   823.45  GPR-17893
2449509.984 310503.485  822.421 GPR-17894
2449509.662 310552.847  823.655 GPR-17895
2449510.142 310566.69   823.421 GPR-17896
2449510.245 310576.521  823.014 GPR-17897
2449510.396 310592.324  823.018 GPR-17898
2449509.252 310667.812  823.615 GPR-17899
2446663.978 310794.154  797.872 GPR-1790
2449510.428 310602.773  822.977 GPR-17901
2449509.885 310637.059  823.022 GPR-17902
2449510.271 310626.362  822.671 GPR-17903
2449510.588 310612.715  822.627 GPR-17904
2449510.05  310652.025  823.323 GPR-17906
2449509.652 310693.558  824.506 GPR-17908
2446673.471 310226.479  792.102 GPR-1791
2449510.632 310709.412  824.823 GPR-17911
2449513.839 310725.011  825.581 GPR-17915
2449515.544 310740.075  825.711 GPR-17919
2449516.821 310748.761  825.711 GPR-17924
2449535.15  310508.821  824.286 GPR-17931
2449535.76  310507.848  823.04  GPR-17934
2449535.805 310508.686  823.083 GPR-17937
2449538.16  310530.933  822.572 GPR-17941
2449539.581 310552.328  822.397 GPR-17945
2449541.031 310568.444  822.595 GPR-17948
2446672.747 310280.749  793.627 GPR-1795
2449541.506 310596.74   822.446 GPR-17953
2446668.376 310556.274  801.2   GPR-1796
2449541.897 310615.933  822.322 GPR-17960
2449542.989 310633.936  822.247 GPR-17966
2446663.936 310834.128  798.281 GPR-1797
2449543.881 310649.715  821.812 GPR-17972
2449544.602 310663.343  822.239 GPR-17975
2449546.186 310678.514  822.474 GPR-17979
2446669.942 310478.062  796.55  GPR-1798
2449546.679 310698.655  823.428 GPR-17990
2449545.824 310751.613  824.351 GPR-17993
2449546.193 310747.287  824.163 GPR-17999
2449547.175 310716.903  823.458 GPR-18003
2449547.178 310734.415  823.411 GPR-18004
2449547.521 310726.339  823.479 GPR-18005
2449555.538 310507.487  823.707 GPR-18007
2449557.125 310513.593  824.424 GPR-18009
2449559.111 310529.536  822.584 GPR-18014
2449560.637 310549.986  821.267 GPR-18016
2449560.422 310569.969  821.268 GPR-18019
2449560.704 310590.325  820.655 GPR-18025
2446668.541 310601.639  798.168 GPR-1803
2449561.052 310617.345  820.547 GPR-18033
2446672.944 310342.061  792.823 GPR-1804
2449561.578 310655.071  821.595 GPR-18040
2449561.328 310669.994  822.039 GPR-18041
2449562.375 310637.536  820.405 GPR-18047
2446667.015 310702.387  797.069 GPR-1805
2449561.908 310677.831  822.172 GPR-18050
2449562.181 310682.823  822.151 GPR-18051
2449562.713 310700.635  822.419 GPR-18054
2449562.85  310710.175  822.362 GPR-18057
2449563.264 310729.733  821.492 GPR-18061
2449564.019 310748.386  821.719 GPR-18065
2449564.092 310749.37   821.639 GPR-18068
2449575.796 310359.578  811.415 GPR-18072
2449575.826 310359.578  811.447 GPR-18074
2449575.917 310363.002  811.774 GPR-18076
2449577.6   310377.593  812.879 GPR-18084
2449578.142 310389.471  813.688 GPR-18089
2449592.475 309615.633  787.368 GPR-18095
2449579.392 310405.183  814.473 GPR-18097
2449579.065 310430.043  815.898 GPR-18100
2449593.15  309601.846  786.737 GPR-18103
2449579.85  310415.02   814.998 GPR-18106
2446672.101 310421.304  791.348 GPR-1811
2449595.344 309591.143  787.319 GPR-18117
2449581.41  310451.125  817.08  GPR-18118
2449596.547 309588.36   787.865 GPR-18122
2449582.44  310469.309  818.535 GPR-18124
2449596.757 309630.777  787.536 GPR-18126
2449582.825 310481.73   819.042 GPR-18129
2449584.174 310493.257  819.52  GPR-18133
2449600.97  309582.718  788.163 GPR-18137
2449600.371 309641.578  788.454 GPR-18140
2446671.486 310508.232  797.368 GPR-1815
2449603.925 309650.593  788.917 GPR-18154
2449589.624 310552  821.036 GPR-18159
2449590.617 310563.521  821.131 GPR-18164
2449591.069 310579.074  821.439 GPR-18168
2449591.786 310598.236  821.987 GPR-18170
2449607.879 309660.562  789.622 GPR-18172
2449590.088 310740.521  820.877 GPR-18179
2446667.999 310753.737  792.128 GPR-1818
2449590.394 310727.529  820.519 GPR-18182
2449592.058 310635.12   822.03  GPR-18184
2449592.275 310629.226  821.934 GPR-18187
2449592.156 310643.423  822.067 GPR-18190
2449590.906 310718.181  821.152 GPR-18191
2449592.531 310622.823  821.891 GPR-18193
2449590.55  310744.824  821.43  GPR-18196
2449591.964 310679.753  821.662 GPR-18203
2449592.485 310650.382  822.028 GPR-18204
```

2449592.208 310668.69 822.062 GPR-18209
2449592.421 310659.482 822.019 GPR-18216
2449614.576 309674.909 789.403 GPR-18223
2449620.546 309564.332 788.022 GPR-18227
2449621.174 309567.547 788.077 GPR-18233
2446675.362 310341.045 792.858 GPR-1824
2449622.898 309576.095 787.855 GPR-18242
2449621.106 309686.814 789.054 GPR-18243
2449625.064 309586.616 788.018 GPR-18250
2449626.766 309697.612 789.824 GPR-18254
2449629.267 309595.861 788.15 GPR-18256
2449632.021 309610.215 788 GPR-18264
2446670.564 310645.797 797.466 GPR-1827
2449632.095 309708.659 790.687 GPR-18276
2449633.658 309624.004 787.768 GPR-18277
2449637.321 309638.955 788.195 GPR-18285
2449637.077 309720.975 791.15 GPR-18289
2449639.578 309645.837 788.215 GPR-18291
2449640.593 309728.752 791.445 GPR-18293
2449642.079 309654.071 788.167 GPR-18294
2449645.036 309665.115 788.334 GPR-18295
2449645.628 309739.613 791.369 GPR-18296
2449647.711 309673.57 788.382 GPR-18297
2449651.893 309586.555 787.521 GPR-18300
2449652.387 309576.551 788.292 GPR-18301
2449652.261 309596.464 788.147 GPR-18302
2449652.791 309577.177 787.54 GPR-18304
2449651.24 309685.861 788.547 GPR-18305
2449650.757 309750.22 791.337 GPR-18307
2449653.793 309605.882 788.084 GPR-18309
2446677.159 310256.066 792.426 GPR-1831
2446668.347 310793.462 797.931 GPR-1832
2449655.538 309615.013 787.911 GPR-18320
2449654.213 309695.996 788.717 GPR-18322
2449654.041 309755.954 791.323 GPR-18330
2449656.853 309623.227 787.525 GPR-18334
2449656.989 309705.544 789.186 GPR-18340
2449659.697 309637.546 787.674 GPR-18346
2449659.39 309714.358 789.415 GPR-18348
2446674.24 310478.134 796.665 GPR-1835
2449659.278 309765.398 791.062 GPR-18350
2449663.098 309724.869 789.574 GPR-18355
2449664.821 309651.975 787.808 GPR-18356
2449665.665 309732.703 789.839 GPR-18360
2449669.201 309666.611 788.065 GPR-18363
2449668.849 309742.586 790.014 GPR-18365
2449669.565 309781.335 790.019 GPR-18369
2446677.747 310279.594 793.871 GPR-1837
2449671.403 309751.184 789.739 GPR-18371
2449672.386 309786.369 789.814 GPR-18373
2449674.753 309682.031 788.496 GPR-18375
2449673.666 309757.666 789.589 GPR-18376
2449673.626 309788.429 789.747 GPR-18378
2449673.626 309788.429 789.797 GPR-18379
2449674.352 309760.954 789.53 GPR-18381
2449675.375 309763.629 789.512 GPR-18382
2449677.66 309692.565 788.552 GPR-18385
2449676.826 309769.041 789.315 GPR-18387
2449678.192 309774.197 789.25 GPR-18388
2446672.48 310601.814 798.314 GPR-1839
2449680.509 309703.025 788.672 GPR-18390
2449680.12 309779.436 789.34 GPR-18392
2449680.762 309781.813 789.27 GPR-18393
2449680.761 309781.849 789.273 GPR-18394
2449680.792 309781.814 789.275 GPR-18396
2449684.519 309583.751 788.396 GPR-18399
2446668.114 310866.344 799.87 GPR-1840
2449684.573 309584.043 788.377 GPR-18400
2449685.954 309593.678 788.501 GPR-18401
2449686.274 309595.795 788.528 GPR-18402
2449684.29 309716.231 788.801 GPR-18403
2449687.059 309602.033 788.556 GPR-18404
2449687.983 309610.604 788.691 GPR-18405
2449686.109 309724.453 788.933 GPR-18406
2449688.327 309613.086 788.513 GPR-18407
2449686.999 309727.963 788.911 GPR-18408
2449687.44 309729.936 788.849 GPR-18409
2446673.35 310556.648 801.579 GPR-1841
2449689.492 309621.406 788.493 GPR-18410
2449688.132 309732.897 789.004 GPR-18411
2449691.006 309630.169 788.406 GPR-18412
2449689.468 309736.305 789.046 GPR-18413
2449690.853 309742.117 789.321 GPR-18416
2449692.747 309639.482 788.536 GPR-18418
2449691.388 309740.232 789.152 GPR-18421
2449693.264 309642.221 788.509 GPR-18423
2449691.812 309745.045 789.407 GPR-18424
2446671.963 310645.457 797.15 GPR-1843
2449693.092 309748.234 789.575 GPR-18430
2449694.77 309651.493 788.753 GPR-18431
2449694.209 309754.15 789.52 GPR-18433
2449694.45 309752.116 789.422 GPR-18434
2449696.436 309665.283 789.052 GPR-18436
2449695.252 309757.372 789.237 GPR-18437
2449697.166 309671.266 789.088 GPR-18438
2449695.821 309760.585 788.877 GPR-18439
2446670.064 310766.804 796.542 GPR-1844
2449697.303 309771.204 788.655 GPR-18440
2449698.32 309775.954 788.722 GPR-18441
2449700.571 309685.667 789.211 GPR-18442
2449699.295 309781.468 788.908 GPR-18443
2449699.944 309785.228 789.035 GPR-18444

```
2449700.567 309788.77   789.09  GPR-18445
2449701.135 309792.02   789.139 GPR-18446
2449701.244 309792.568  789.179 GPR-18447
2449703.19  309699.254  789.294 GPR-18448
2449706.279 309713.104  789.375 GPR-18449
2449708.495 309722.388  789.178 GPR-18451
2449707.931 309793.335  789.064 GPR-18455
2449708.683 309757.196  788.954 GPR-18458
2449708.85  309768.485  789.131 GPR-18466
2449709.554 309745.924  788.772 GPR-18476
2449709.043 309783.524  789.066 GPR-18478
2449709.192 309794.121  788.987 GPR-18481
2449709.218 309794.376  789.012 GPR-18482
2449711.423 309793.685  789.238 GPR-18484
2449718.208 309795.691  789.233 GPR-18487
2449727.362 309797.774  789.329 GPR-18488
2449733.668 309798.243  788.995 GPR-18489
2446671.592 310701.626  797.194 GPR-1849
2449733.76  309799.847  788.851 GPR-18490
2449733.932 309800.214  788.971 GPR-18491
2449735.057 309800.305  786.495 GPR-18492
2449735.12  309800.088  786.31  GPR-18493
2449736.562 309791.848  786.106 GPR-18494
2449738.344 309780.992  786.007 GPR-18495
2449740.01  309771.809  785.945 GPR-18496
2449740.797 309765.488  786.2   GPR-18497
2449741.141 309762.654  786.315 GPR-18498
2449741.567 309760.221  786.357 GPR-18499
2446677.689 310340.137  793.129 GPR-1850
2449744.206 309747.815  786.386 GPR-18502
2449746.069 309735.65   786.387 GPR-18507
2446679.632 310226.8    793.576 GPR-1851
2449730.44  310740.975  818.631 GPR-18549
2449730.44  310740.975  818.631 GPR-18550
2449730.44  310740.975  818.631 GPR-18551
2449730.44  310740.975  818.631 GPR-18552
2449730.44  310740.975  818.631 GPR-18553
2449730.44  310740.975  818.631 GPR-18554
2449730.44  310740.975  818.631 GPR-18555
2449730.44  310740.975  818.631 GPR-18556
2449730.44  310740.975  818.631 GPR-18557
2449730.44  310740.975  818.631 GPR-18558
2449730.44  310740.975  818.631 GPR-18559
2449730.44  310740.975  818.631 GPR-18560
2449730.44  310740.975  818.631 GPR-18561
2449730.44  310740.975  818.631 GPR-18562
2449730.44  310740.975  818.631 GPR-18563
2449730.44  310740.975  818.631 GPR-18564
2449730.44  310740.975  818.631 GPR-18565
2449730.44  310740.975  818.631 GPR-18566
2449730.44  310740.975  818.631 GPR-18567
2449730.44  310740.975  818.631 GPR-18568
2449730.44  310740.975  818.631 GPR-18569
2446675.317 310507.859  797.517 GPR-1857
2449730.44  310740.975  818.631 GPR-18570
2449730.44  310740.975  818.631 GPR-18571
2449730.44  310740.975  818.631 GPR-18572
2446678.313 310340.039  793.252 GPR-1861
2449747.774 309727.632  786.569 GPR-18625
2449749.199 309716.916  786.56  GPR-18628
2446678.373 310340.003  793.215 GPR-1863
2449751.265 309703.262  786.561 GPR-18631
2449752.65  309693.091  786.679 GPR-18634
2449754.434 309662.685  786.679 GPR-18637
2446672.365 310701.493  797.261 GPR-1864
2449754.33  309683.035  786.631 GPR-18640
2449754.642 309673.283  786.625 GPR-18641
2449756.563 309655.913  786.274 GPR-18646
2449762.436 309639.737  786.157 GPR-18650
2449767.356 309625.621  785.599 GPR-18654
2449764.956 309790.393  785.946 GPR-18655
2449765.017 309790.249  786.03  GPR-18657
2449765.017 309790.285  786.001 GPR-18659
2446670.226 310831.975  798.51  GPR-1866
2449766.737 309703.411  787.362 GPR-18662
2449767.283 309697.341  787.041 GPR-18666
2449767.153 309708.624  787.147 GPR-18667
2449768.922 309689.759  786.991 GPR-18679
2449768.775 309719.792  786.457 GPR-18685
2449767.797 309780.029  785.74  GPR-18688
2449771.128 309618.111  785.667 GPR-18697
2449769.484 309728.76   786.27  GPR-18698
2449770.367 309679.516  786.697 GPR-18699
2446675.125 310544.335  803.633 GPR-1870
2449770.568 309734.858  786.32  GPR-18708
2449770.25  309769.839  786 GPR-18710
2449773.493 309620.226  785.382 GPR-18714
2449771.449 309744.229  785.951 GPR-18715
2449772.922 309665.033  786.507 GPR-18716
2449771.491 309757.664  785.778 GPR-18718
2446672.246 310726.502  796.686 GPR-1872
2449775.08  309654.766  786.159 GPR-18727
2449777.684 309639.082  786.48  GPR-18738
2446673.71  310663.398  800.322 GPR-1874
2449778.073 309629.987  785.276 GPR-18741
2449778.222 309633.521  785.064 GPR-18744
2449778.527 309634.764  786.296 GPR-18750
2446677.052 310478.326  796.693 GPR-1879
2446675.667 310602.741  798.425 GPR-1884
2446680.413 310338.544  793.358 GPR-1888
2446527.652 310296.286  788.62  GPR-189
2446681.348 310294.799  792.34  GPR-1890
```

2446673.457	310792.782	798.319	GPR-1894
2446676.09	310643.232	797.004	GPR-1895
2446677.762	310556.939	801.87	GPR-1897
2446676.506	310662.825	800.377	GPR-1901
2446679.536	310507.238	797.627	GPR-1905
2446675.673	310752.153	791.929	GPR-1907
2446677.592	310642.055	796.933	GPR-1910
2446684.21	310252.761	792.486	GPR-1911
2446683.852	310277.875	793.995	GPR-1912
2446674.848	310864.235	800.178	GPR-1917
2446678.569	310642.144	796.791	GPR-1918
2446681.68	310478.112	797.066	GPR-1921
2446686.291	310227.42	793.899	GPR-1925
2446679.458	310642.159	796.792	GPR-1926
2446680.567	310603.987	798.802	GPR-1929
2446685.23	310335.894	793.494	GPR-1930
2446677.403	310829.983	798.814	GPR-1937
2446679.192	310724.142	797.059	GPR-1938
2446685.917	310335.578	793.47	GPR-1940
2446681.061	310661.627	799.946	GPR-1943
2446682.822	310557.46	802.119	GPR-1944
2446682.13	310604.45	799.028	GPR-1945
2446684.125	310543.247	803.642	GPR-1952
2446680.215	310791.038	798.6	GPR-1954
2446683.349	310604.252	799.042	GPR-1955
2446681.757	310700.011	797.86	GPR-1956
2446689.093	310276.47	794.37	GPR-1958
2446685.504	310506.645	797.829	GPR-1961
2446689.278	310292.055	792.409	GPR-1963
2446681.779	310750.434	791.758	GPR-1965
2446686.492	310477.536	797.289	GPR-1966
2446683.825	310641.576	796.915	GPR-1967
2446682.281	310764.787	797.05	GPR-1972
2446681.241	310829.136	798.978	GPR-1973
2446683.187	310722.752	797.318	GPR-1975
2446691.341	310250.003	792.639	GPR-1976
2446681.552	310862.198	800.328	GPR-1980
2446692.113	310228.5	793.965	GPR-1981
2446690.373	310333.176	793.569	GPR-1982
2446686.869	310604.674	799.188	GPR-1988
2446689.31	310477.438	797.476	GPR-1990
2446688.029	310558.093	802.444	GPR-1991
2446684.353	310789.978	798.77	GPR-1992
2446686.787	310659.574	800.001	GPR-1994
2446685.867	310722.032	797.575	GPR-1998
2446514.505	310066.998	780.544	GPR-2
2446689.809	310506.243	798.313	GPR-2000
2446694.244	310275.099	794.762	GPR-2003
2446693.603	310331.482	793.805	GPR-2006
2446688.816	310640.931	796.987	GPR-2010
2446687.56	310748.564	792.141	GPR-2015
2446695.338	310289.534	792.492	GPR-2018
2446686.455	310827.585	799.32	GPR-2021
2446690.209	310605.276	799.554	GPR-2022
2446691.93	310542.758	804.028	GPR-2025
2446690.297	310658.831	800.049	GPR-2027
2446689.323	310720.997	797.89	GPR-2029
2446693.283	310505.937	798.465	GPR-2036
2446693.82	310477.185	797.511	GPR-2037
2446696.404	310330.619	793.869	GPR-2039
2446687.716	310860.517	800.486	GPR-2040
2446698.319	310229.659	794.035	GPR-2041
2446690.805	310697.795	798.165	GPR-2044
2446695.451	310425.405	793.132	GPR-2046
2446693.394	310558.109	802.892	GPR-2049
2446699.123	310247.293	793.14	GPR-2054
2446693.441	310605.22	800.137	GPR-2056
2446692.026	310697.451	798.097	GPR-2058
2446690.452	310826.049	799.594	GPR-2062
2446692.305	310719.918	798.384	GPR-2063
2446700.049	310273.594	795.159	GPR-2068
2446694.026	310639.561	797.512	GPR-2069
2446694.953	310605.173	800.71	GPR-2070
2446699.669	310328.561	793.922	GPR-2072
2446692.776	310746.903	792.749	GPR-2073
2446697.408	310505.642	798.449	GPR-2080
2446695.04	310657.017	800.202	GPR-2082
2446694.003	310719.401	798.663	GPR-2083
2446701.523	310288.363	792.698	GPR-2086
2446696.445	310656.349	800.633	GPR-2095
2446697.46	310605.942	801.05	GPR-2099
2446699.189	310505.489	798.464	GPR-2101
2446704.141	310230.702	794.216	GPR-2104
2446700.28	310477.329	797.442	GPR-2105
2446698.167	310606.209	801.294	GPR-2106
2446699.08	310558.422	803.354	GPR-2108
2446697.491	310655.82	801.028	GPR-2109
2446698.491	310606.324	801.426	GPR-2111
2446703.184	310327.528	794.144	GPR-2113
2446697.105	310696.844	798.349	GPR-2114
2446696.865	310718.429	799.033	GPR-2116
2446702.116	310425.698	793.512	GPR-2122
2446704.813	310272.326	795.35	GPR-2123
2446705.308	310244.338	793.586	GPR-2124
2446700.399	310543.263	804.885	GPR-2125
2446695.177	310859.258	800.988	GPR-2126
2446697.336	310745.414	794.094	GPR-2130
2446696.083	310824.359	799.83	GPR-2131
2446704.474	310326.602	793.979	GPR-2132
2446699.306	310655.377	801.5	GPR-2134
2446699.456	310655.306	801.531	GPR-2136
2446699.692	310655.347	801.612	GPR-2141

```
2446705.284 310326.07   794.011 GPR-2143
2446702.34  310504.959  798.558 GPR-2144
2446697.778 310786.597  799.206 GPR-2147
2446697.245 310824.014  799.908 GPR-2148
2446701.717 310606.668  802.126 GPR-2150
2446701.271 310654.9    802.218 GPR-2155
2446706.782 310325.075  794.145 GPR-2156
2446700.407 310744.3    795.61  GPR-2160
2446704.881 310476.932  797.83  GPR-2161
2446701.421 310695.823  799.304 GPR-2162
2446699.394 310823.103  799.888 GPR-2163
2446707.798 310324.619  793.958 GPR-2164
2446703.287 310606.731  802.347 GPR-2168
2446700.051 310822.823  799.882 GPR-2175
2446702.999 310654.382  803.053 GPR-2176
2446702.12  310716.15   799.717 GPR-2178
2446710.194 310232.186  794.365 GPR-2179
2446705.073 310543.85   805.348 GPR-2180
2446709.508 310285.947  793.164 GPR-2182
2446706.261 310504.442  798.662 GPR-2187
2446705.355 310559  803.66  GPR-2188
2446702.198 310761.404  798.345 GPR-2191
2446709.499 310323.919  794.176 GPR-2192
2446710.896 310241.663  793.762 GPR-2193
2446704.571 310654.336  803.318 GPR-2197
2446705.987 310606.594  802.963 GPR-2198
2446711.62  310271.238  795.647 GPR-2200
2446704.047 310742.904  797.084 GPR-2204
2446702.145 310857.335  801.533 GPR-2205
2446705.438 310694.871  800.244 GPR-2214
2446713.008 310241.189  794.106 GPR-2215
2446706.623 310653.933  803.331 GPR-2219
2446712.337 310322.583  794.028 GPR-2220
2446713.712 310284.488  793.477 GPR-2224
2446714.698 310239.433  794.648 GPR-2226
2446710.843 310476.703  798.482 GPR-2228
2446715.137 310232.632  794.602 GPR-2233
2446713.712 310321.914  794.244 GPR-2235
2446709.011 310606.535  803.817 GPR-2236
2446708.542 310636.526  801.298 GPR-2237
2446705.978 310821.101  800.052 GPR-2241
2446715.16  310270.496  795.952 GPR-2242
2446715.703 310239.559  794.678 GPR-2244
2446711.485 310504.092  798.821 GPR-2245
2446708.103 310741.406  797.366 GPR-2250
2446711.158 310559.388  803.996 GPR-2252
2446710.459 310606.814  803.978 GPR-2254
2446709.074 310693.693  800.924 GPR-2255
2446707.846 310783.67   799.028 GPR-2256
2446717.646 310238.608  794.501 GPR-2266
2446711.762 310606.908  804.161 GPR-2267
2446713.085 310543.328  805.834 GPR-2271
2446714.342 310476.652  798.845 GPR-2273
2446717.646 310283.17   793.749 GPR-2275
2446718.19  310270.109  796.133 GPR-2277
2446717.564 310320.23   794.415 GPR-2279
2446719.635 310238.459  795.081 GPR-2286
2446712.206 310712.131  800.801 GPR-2289
2446719.614 310269.987  796.005 GPR-2290
2446715.786 310503.908  799.342 GPR-2291
2446719.703 310269.989  795.953 GPR-2292
2446712.792 310692.918  801.081 GPR-2294
2446720.469 310232.83   794.912 GPR-2295
2446712.037 310740.161  797.874 GPR-2296
2446720.064 310269.703  795.445 GPR-2299
2446523.888 310010.797  778.166 GPR-23
2446720.124 310269.668  795.343 GPR-2301
2446720.273 310269.598  795.138 GPR-2302
2446714.727 310606.848  804.346 GPR-2304
2446711.194 310819.404  799.957 GPR-2305
2446720.271 310282.231  793.956 GPR-2306
2446720.27  310282.267  793.933 GPR-2308
2446720.56  310270.148  795.134 GPR-2310
2446718.103 310428.694  794.385 GPR-2312
2446722.2   310237.483  795.431 GPR-2320
2446715.486 310652.151  804.094 GPR-2323
2446712.36  310854.483  801.92  GPR-2327
2446718.847 310476.691  799.329 GPR-2332
2446722.274 310272.252  795.349 GPR-2334
2446716.974 310607.213  804.369 GPR-2337
2446714.951 310782.404  799.066 GPR-2343
2446719.028 310560.283  804.349 GPR-2346
2446530.268 310292.252  789.437 GPR-235
2446720.23  310504.018  799.723 GPR-2351
2446724.946 310232.795  794.957 GPR-2355
2446716.195 310759.307  799.198 GPR-2357
2446717.741 310691.252  801.053 GPR-2361
2446721.516 310476.589  799.559 GPR-2367
2446715.905 310817.771  800.321 GPR-2369
2446725.879 310235.541  795.571 GPR-2377
2446719.761 310607.15   804.268 GPR-2379
2446724.694 310315.725  795.059 GPR-2381
2446725.54  310275.547  795.733 GPR-2384
2446718.863 310737.871  798.551 GPR-2394
2446721.424 310606.96   804.193 GPR-2397
2446727.839 310233.499  794.942 GPR-2399
2446719.981 310709.857  801.407 GPR-2401
2446728.428 310233.763  795.706 GPR-2406
2446723.421 310542.116  806.062 GPR-2407
2446722.345 310606.866  804.16  GPR-2408
2446725.462 310430.018  795.041 GPR-2411
2446719.034 310816.767  800.442 GPR-2412
```

```
2446729.057 310233.337  795.739 GPR-2416
2446729.147 310233.302  795.832 GPR-2420
2446721.794 310689.973  801.503 GPR-2423
2446720.277 310781.219  799.249 GPR-2424
2446728.851 310279.643  795.93  GPR-2426
2446725.757 310476.514  799.703 GPR-2428
2446723.14  310633.965  801.442 GPR-2429
2446530.446 310292.255  789.329 GPR-243
2446730.082 310234.082  794.821 GPR-2433
2446730.202 310234.011  794.714 GPR-2437
2446720.554 310816.283  800.553 GPR-2440
2446725.983 310503.896  800.053 GPR-2443
2446724.272 310649.675  804.169 GPR-2446
2446726.371 310560.842  804.769 GPR-2449
2446722.476 310814.786  800.649 GPR-2454
2446724.831 310689.149  801.766 GPR-2456
2446731.467 310311.323  795.469 GPR-2459
2446732.375 310283.415  795.984 GPR-2464
2446725.033 310735.862  799.104 GPR-2466
2446729.434 310476.393  799.897 GPR-2467
2446725.932 310688.913  801.753 GPR-2469
2446723.345 310851.644  802.192 GPR-2471
2446726.014 310814.116  800.867 GPR-2491
2446727.811 310707.839  801.816 GPR-2492
2446734.956 310286.843  796.361 GPR-2493
2446730.77  310540.491  806.198 GPR-2494
2446727.135 310780.604  799.811 GPR-2497
2446727.695 310755.785  800.235 GPR-2499
2446731.406 310561.108  804.9   GPR-2501
2446733.531 310476.061  800.193 GPR-2504
2446731.791 310605.676  804.31  GPR-2509
2446733.572 310503.876  800.263 GPR-2511
2446737.33  310290.305  797.258 GPR-2513
2446730.156 310734.346  799.711 GPR-2514
2446738.238 310306.958  795.847 GPR-2520
2446730.063 310813.055  800.987 GPR-2523
2446739.125 310292.883  797.746 GPR-2528
2446739.226 310306.428  795.74  GPR-2531
2446739.256 310306.356  795.768 GPR-2535
2446739.317 310306.284  795.796 GPR-2539
2446739.347 310306.248  795.809 GPR-2541
2446737.522 310432.075  796.126 GPR-2545
2446737.004 310475.755  800.32  GPR-2547
2446734.764 310647.993  804.712 GPR-2551
2446737.578 310503.652  800.474 GPR-2552
2446733.52  310779.873  800.667 GPR-2556
2446734.099 310753.961  801.222 GPR-2559
2446531.649 310293.003  789.299 GPR-256
2446741.769 310296.095  797.956 GPR-2560
2446733.318 310849.115  802.523 GPR-2562
2446737.769 310631.26   802.648 GPR-2568
2446739.457 310538.597  806.16  GPR-2570
2446740.919 310475.638  800.345 GPR-2573
2446735.484 310811.543  801.257 GPR-2574
2446737.185 310732.387  800.352 GPR-2576
2446744.594 310299.091  798.004 GPR-2578
2446738.048 310705.388  802.078 GPR-2581
2446741.557 310503.244  800.942 GPR-2582
2446741.417 310538.411  806.161 GPR-2587
2446531.534 310314.226  789.755 GPR-259
2446737.926 310778.745  801.284 GPR-2591
2446743.291 310475.604  800.411 GPR-2593
2446740.067 310685.616  802.289 GPR-2595
2446743.515 310503.131  801.127 GPR-2596
2446743.142 310561.23   804.97  GPR-2598
2446531.569 310313.899  789.631 GPR-260
2446747.946 310302.532  797.985 GPR-2602
2446742.687 310629.63   802.671 GPR-2605
2446743.703 310604.199  804.736 GPR-2611
2446740.786 310809.957  801.351 GPR-2616
2446743.683 310646.394  805.023 GPR-2617
2446742.762 310751.739  802.34  GPR-2626
2446741.247 310846.444  802.914 GPR-2628
2446750.272 310305.265  798.103 GPR-2629
2446747.887 310475.499  800.632 GPR-2631
2446747.473 310537.893  806.014 GPR-2634
2446748.705 310502.963  801.318 GPR-2639
2446531.702 310314.812  789.948 GPR-264
2446745.036 310729.059  801.666 GPR-2640
2446747.268 310603.676  804.753 GPR-2642
2446747.298 310603.676  804.835 GPR-2643
2446747.328 310603.64   804.905 GPR-2647
2446747.328 310603.64   804.886 GPR-2648
2446747.358 310603.641  804.919 GPR-2651
2446747.538 310603.535  804.939 GPR-2655
2446751.368 310433.725  797.395 GPR-2662
2446750.486 310502.847  801.45  GPR-2663
2446753.999 310309.332  798.285 GPR-2664
2446746.594 310776.231  802.539 GPR-2666
2446751.827 310475.637  800.863 GPR-2668
2446748.046 310728.09   801.841 GPR-2673
2446747.08  310807.586  801.543 GPR-2674
2446750.405 310645.049  805.462 GPR-2680
2446752.067 310561.087  804.86  GPR-2682
2446748.973 310775.761  802.84  GPR-2684
2446750.216 310702.787  802.66  GPR-2685
2446749.454 310750.394  803.121 GPR-2686
2446748.601 310807.065  801.653 GPR-2687
2446750.042 310727.504  802.021 GPR-2688
2446757.066 310312.04   798.257 GPR-2689
2446751.654 310644.779  805.392 GPR-2691
2446751.654 310644.815  805.411 GPR-2692
```

```
2446749.227 310806.857  801.699 GPR-2696
2446748.612 310843.872  803.017 GPR-2697
2446753.856 310537.307  806.249 GPR-2698
2446751.99  310683.448  802.914 GPR-2700
2446755.113 310502.669  801.75  GPR-2701
2446755.68  310475.701  801.104 GPR-2702
2446759.78  310314.634  798.031 GPR-2710
2446756.828 310536.81   806.271 GPR-2716
2446757.986 310502.826  801.994 GPR-2717
2446759.117 310475.794  801.473 GPR-2722
2446754.457 310773.996  803.496 GPR-2725
2446762.863 310318.18   797.883 GPR-2729
2446754.838 310842.01   802.744 GPR-2733
2446762.006 310435.722  798.069 GPR-2739
2446761.388 310503.21   802.377 GPR-2742
2446758.175 310725.091  802.44  GPR-2745
2446761.731 310536.091  806.561 GPR-2747
2446765.956 310321.144  798.073 GPR-2754
2446759.796 310700.689  803.077 GPR-2755
2446763.71  310475.871  801.935 GPR-2756
2446758.601 310840.288  802.264 GPR-2761
2446764.259 310503.476  802.829 GPR-2762
2446760.555 310803.004  802.819 GPR-2769
2446761.725 310746.884  803.794 GPR-2771
2446765.469 310560.873  804.852 GPR-2772
2446765.924 310535.287  806.627 GPR-2773
2446769.883 310325.687  798.247 GPR-2778
2446763.216 310771.302  804.088 GPR-2783
2446768.226 310503.797  803.058 GPR-2784
2446769.224 310475.853  802.247 GPR-2785
2446766.307 310681.647  803.474 GPR-2788
2446772.293 310328.676  798.435 GPR-2789
2446532.642 310311.769  788.725 GPR-279
2446770.563 310534.417  806.76  GPR-2800
2446765.648 310837.238  801.655 GPR-2801
2446771.28  310503.775  803.423 GPR-2802
2446775.372 310332.477  798.586 GPR-2809
2446769.373 310721.891  803.029 GPR-2812
2446773.03  310503.731  803.643 GPR-2813
2446774.181 310438  798.635 GPR-2814
2446778.512 310336.207  798.837 GPR-2826
2446776.199 310475.314  802.693 GPR-2827
2446771.685 310768.275  804.38  GPR-2830
2446776.8   310503.357  804.117 GPR-2834
2446776.36  310533.421  807.122 GPR-2835
2446780.751 310338.792  799.001 GPR-2841
2446778.544 310475.171  802.785 GPR-2842
2446777.775 310560.641  805.719 GPR-2844
2446773.36  310833.361  802.083 GPR-2845
2446773.963 310798.858  803.973 GPR-2846
2446776.182 310697.503  803.7   GPR-2848
2446775.693 310742.93   804.371 GPR-2849
2446782.961 310341.414  799.155 GPR-2854
2446781.121 310475.25   803.001 GPR-2860
2446782.903 310439.419  799.081 GPR-2863
2446777.621 310766.08   804.524 GPR-2864
2446785.459 310344.477  799.347 GPR-2870
2446780.002 310679.909  803.976 GPR-2871
2446784.308 310502.899  804.638 GPR-2875
2446784.856 310475.276  803.234 GPR-2876
2446784.885 310532.398  807.829 GPR-2881
2446788.881 310349.048  799.774 GPR-2887
2446781.207 310830.324  802.6   GPR-2888
2446787.85  310475.253  803.449 GPR-2890
2446784.643 310718.14   804.071 GPR-2895
2446792.013 310353.251  800.159 GPR-2899
2446533.617 310294.128  789.098 GPR-290
2446785.918 310762.65   804.955 GPR-2900
2446791.346 310475.384  803.802 GPR-2904
2446788.356 310678.446  804.316 GPR-2905
2446790.851 310531.878  807.957 GPR-2906
2446794.158 310356.163  800.381 GPR-2913
2446787.952 310740.185  804.718 GPR-2915
2446786.67  310827.976  803.262 GPR-2916
2446792.577 310502.964  805.516 GPR-2919
2446803.084 309920.816  775.803 GPR-2922
2446793.317 310531.555  808.101 GPR-2924
2446793.051 310561.841  806.057 GPR-2925
2446796.591 310359.552  800.699 GPR-2927
2446794.653 310502.926  805.721 GPR-2929
2446795.232 310475.23   804.144 GPR-2931
2446796.121 310441.35   799.95  GPR-2932
2446790.319 310793.924  805.102 GPR-2934
2446789.341 310856.308  806.99  GPR-2935
2446799.638 310363.499  801.479 GPR-2942
2446798.527 310530.186  808.272 GPR-2955
2446795.508 310715.408  804.373 GPR-2957
2446799.128 310503  805.862 GPR-2958
2446800.249 310474.767  804.295 GPR-2962
2446797.007 310675.168  804.741 GPR-2963
2446810.209 309916.675  775.148 GPR-2967
2446802.777 310367.301  802.178 GPR-2968
2446797.495 310693.925  804.569 GPR-2969
2446796.537 310758.676  805.463 GPR-2971
2446796.066 310824.455  803.827 GPR-2976
2446803.147 310443.105  800.432 GPR-2979
2446801.422 310562.927  806.153 GPR-2981
2446796.849 310854.03   806.773 GPR-2983
2446806.033 310371.141  802.854 GPR-2990
2446804.669 310474.586  804.544 GPR-2992
2446801.9   310675.031  804.957 GPR-2997
2446517.93  310046.449  779.674 GPR-3
```

```
2446801.635 310737.318  805.246 GPR-3003
2446805.337 310528.915  808.254 GPR-3004
2446808.356 310374.056  803.156 GPR-3008
2446533.885 310317.214  790.676 GPR-301
2446802.114 310790.516  805.836 GPR-3010
2446816.989 309911.8    775.716 GPR-3013
2446807.371 310502.846  806.036 GPR-3014
2446808.231 310474.317  804.788 GPR-3017
2446804.406 310756.077  805.735 GPR-3023
2446811.702 310377.861  803.556 GPR-3027
2446811.056 310445.239  801.732 GPR-3030
2446805.174 310850.783  806.674 GPR-3034
2446808.343 310674.373  805.153 GPR-3035
2446811.704 310473.975  805.051 GPR-3036
2446806.66  310820.19   804.487 GPR-3039
2446814.06  310380.449  803.902 GPR-3040
2446808.962 310712.064  804.587 GPR-3045
2446812.653 310502.533  806.045 GPR-3046
2446536.297 310295.156  788.601 GPR-305
2446813.262 310528.283  808.355 GPR-3053
2446815.205 310473.814  805.265 GPR-3061
2446824.845 309904.649  778.761 GPR-3062
2446812.357 310673.675  805.412 GPR-3063
2446817.352 310383.926  804.401 GPR-3065
2446816.498 310445.948  802.496 GPR-3066
2446537.446 310322.334  790.926 GPR-307
2446815.212 310564.321  806.567 GPR-3070
2446813.634 310691.354  805.179 GPR-3078
2446812.725 310754.941  805.76  GPR-3080
2446820.378 310387.326  804.619 GPR-3089
2446818.496 310502.339  805.88  GPR-3090
2446813.876 310787.325  806.379 GPR-3092
2446813.227 310847.786  805.854 GPR-3095
2446830.888 309897.76   781.779 GPR-3105
2446821.413 310473.044  805.453 GPR-3107
2446822.233 310446.918  802.734 GPR-3109
2446818.041 310754.337  805.458 GPR-3114
2446824.191 310391.576  804.809 GPR-3116
2446823.49  310528.198  807.972 GPR-3124
2446825.202 310446.639  803.151 GPR-3128
2446824.308 310502.181  805.917 GPR-3129
2446544.646 310297.588  788.483 GPR-313
2446822.651 310708.87   805.082 GPR-3135
2446836.659 309891.193  784.649 GPR-3136
2446821.621 310815.378  805.159 GPR-3139
2446825.96  310565.082  806.598 GPR-3141
2446828.97  310396.534  805.039 GPR-3143
2446827.734 310472.639  805.418 GPR-3144
2446824.596 310688.114  805.492 GPR-3146
2446828.046 310502.024  805.935 GPR-3150
2446829.217 310447.653  803.517 GPR-3153
2446825.556 310669.599  806.125 GPR-3154
2446829.202 310502.007  805.924 GPR-3156
2446825.244 310752.6    805.843 GPR-3158
2446830.817 310472.654  805.37  GPR-3164
2446832.18  310472.677  805.354 GPR-3170
2446833.789 310400.837  805.255 GPR-3171
2446830.108 310668.619  805.929 GPR-3177
#2446843.336    309883.622  787.964 GPR-3179    Removed anaomalous elevations
2446830.583 310668.554  805.932 GPR-3181
2446830.613 310668.554  805.897 GPR-3184
2446834.519 310447.85   803.251 GPR-3188
2446833.826 310502.048  805.657 GPR-3190
2446833.918 310528.59   807.778 GPR-3194
2446834.996 310472.651  805.527 GPR-3196
2446829.431 310812.777  805.436 GPR-3197
#2446845.473    309862.105  797.386 GPR-3198    Removed anaomalous elevations
2446550.581 310325.72   789.817 GPR-320
2446836.487 310404.377  805.374 GPR-3200
#2446845.741    309863.784  799.402 GPR-3202    Removed anaomalous elevations
#2446845.692    309866.732  799.034 GPR-3204    Removed anaomalous elevations
#2446845.819    309869.829  800.133 GPR-3209    Removed anaomalous elevations
2446551.622 310298.76   788.695 GPR-321
#2446845.844    309870.084  799.274 GPR-3211    Removed anaomalous elevations
#2446845.895    309870.559  797.658 GPR-3213    Removed anaomalous elevations
#2446846.154    309860.369  796.148 GPR-3215    Removed anaomalous elevations
#2446846.267    309873.15   792.629 GPR-3219    Removed anaomalous elevations
#2446846.673    309854.116  795.825 GPR-3221    Removed anaomalous elevations
#2446846.895    309876.4    790.072 GPR-3225    Removed anaomalous elevations
#2446847.112    309877.605  789.119 GPR-3227    Removed anaomalous elevations
2446838.551 310406.85   805.377 GPR-3228
#2446847.397    309880.122  787.299 GPR-3230    Removed anaomalous elevations
2446832.431 310782.064  806.968 GPR-3231
2446836.122 310565.397  806.53  GPR-3232
#2446848.163    309851.847  795.652 GPR-3234    Removed anaomalous elevations
2446833.257 310750.222  806.325 GPR-3235
2446835.692 310684.002  805.772 GPR-3241
#2446850.715    309848.103  795.524 GPR-3248    Removed anaomalous elevations
2446841.579 310410.141  805.441 GPR-3249
2446841.153 310448.215  803.298 GPR-3251
2446837.294 310705.327  805.473 GPR-3254
2446841.309 310472.719  805.794 GPR-3255
2446840.18  310565.574  806.417 GPR-3259
2446840.179 310565.646  806.391 GPR-3260
2446836.793 310810.351  805.772 GPR-3265
2446844.231 310412.843  805.544 GPR-3270
#2446854.127    309842.626  795.191 GPR-3272    Removed anaomalous elevations
2446839.856 310704.532  805.132 GPR-3274
2446844.894 310447.877  803.509 GPR-3277
2446843.597 310529.442  807.383 GPR-3278
2446545.863 310898.717  792.556 GPR-328
#2446857.569    309835.293  796.777 GPR-3286    Removed anaomalous elevations
```

```
2446842.404 310747.425  806.766 GPR-3287
2446847.996 310416.437  805.649 GPR-3289
2446847.863 310472.537  805.867 GPR-3294
2446848.659 310447.83   803.464 GPR-3297
2446525.668 309925.052  776.778 GPR-33
#2446860.518    309829.043  798.131 GPR-3308    Removed anaomalous elevations
2446850.819 310419.542  805.518 GPR-3309
2446845.867 310726.33   806.45  GPR-3310
2446849.339 310529.975  806.91  GPR-3313
2446850.129 310502.1    805.54  GPR-3315
2446846.18  310807.376  805.929 GPR-3322
2446852.568 310448.114  803.407 GPR-3325
2446853.225 310422.822  805.402 GPR-3326
2446849.182 310680.295  806.179 GPR-3327
#2446864.021    309821.638  799.734 GPR-3329    Removed anaomalous elevations
2446855.058 310424.891  805.243 GPR-3332
2446851.536 310679.569  806.273 GPR-3337
2446850.364 310776.755  807.682 GPR-3339
2446855.975 310448.207  803.394 GPR-3341
2446854.771 310529.555  806.478 GPR-3342
2446855.992 310472.162  806.025 GPR-3344
#2446867.339    309814.631  801.253 GPR-3345    Removed anaomalous elevations
2446857.27  310427.367  805.154 GPR-3346
2446852.442 310744.534  807.205 GPR-3348
2446546.415 310878.01   792.244 GPR-335
2446858.809 310429.286  805.102 GPR-3354
2446853.154 310805.126  806.29  GPR-3356
2446855.862 310677.894  806.221 GPR-3359
2446860.2   310431.202  805.017 GPR-3360
2446860.737 310448.832  803.362 GPR-3363
2446862.142 310433.856  804.993 GPR-3366
2446868.711 310085.154  787.267 GPR-3368
2446868.711 310085.154  787.267 GPR-3369
2446868.711 310085.154  787.267 GPR-3370
2446868.711 310085.154  787.267 GPR-3371
2446868.711 310085.154  787.267 GPR-3372
2446868.711 310085.154  787.267 GPR-3373
2446868.711 310085.154  787.267 GPR-3374
2446868.711 310085.154  787.267 GPR-3375
2446868.711 310085.154  787.267 GPR-3376
2446868.711 310085.154  787.267 GPR-3377
2446868.711 310085.154  787.267 GPR-3378
2446868.711 310085.154  787.267 GPR-3379
2446868.711 310085.154  787.267 GPR-3380
2446868.711 310085.154  787.267 GPR-3381
2446868.711 310085.154  787.267 GPR-3382
2446868.711 310085.154  787.267 GPR-3383
2446868.711 310085.154  787.267 GPR-3384
2446868.879 310085.739  787.531 GPR-3386
2446861.53  310529.522  806.32  GPR-3387
2446860.006 310676.433  806.257 GPR-3390
2446863.907 310448.957  803.413 GPR-3391
2446864.442 310436.406  804.944 GPR-3393
2446861.854 310675.845  806.227 GPR-3399
2446862.181 310675.778  806.221 GPR-3401
2446862.211 310675.778  806.2   GPR-3403
2446862.242 310675.706  806.229 GPR-3404
2446864.79  310529.576  806.389 GPR-3407
2446864.79  310529.576  806.387 GPR-3408
2446546.379 310885.473  792.299 GPR-341
2446864.819 310529.577  806.382 GPR-3413
2446864.819 310529.577  806.334 GPR-3414
2446866.451 310449.255  803.359 GPR-3415
2446872.465 310094.682  780.776 GPR-3417
2446862.245 310721.833  806.833 GPR-3418
2446867.29  310439.839  805.034 GPR-3420
2446866.821 310471.614  806.478 GPR-3421
2446861.538 310801.843  806.641 GPR-3422
2446867.841 310449.46   803.282 GPR-3424
2446867.841 310449.46   803.172 GPR-3425
2446867.841 310449.46   803.119 GPR-3426
#2446879.312    309795.207  786.179 GPR-3432    Removed anaomalous elevations
2446863.255 310773.438  808.07  GPR-3434
2446869.441 310442.351  805.162 GPR-3435
2446869.309 310502.019  805.813 GPR-3436
#2446876.194    310103.991  770.517 GPR-3438    Removed anaomalous elevations
2446865.876 310740.57   807.808 GPR-3439
2446546.046 310907.348  792.916 GPR-344
2446871.487 310444.132  805.204 GPR-3441
2446882.505 309790.381  784.043 GPR-3442
#2446878.584    310109.965  763.936 GPR-3450    Removed anaomalous elevations
2446873.615 310446.279  805.385 GPR-3456
2446885.151 309786.348  782.932 GPR-3460
#2446880.833    310115.573  757.742 GPR-3468    Removed anaomalous elevations
2446876.01  310448.43   805.584 GPR-3470
2446871.232 310798.218  806.916 GPR-3476
#2446888.504    309782.544  785.388 GPR-3478    Removed anaomalous elevations
2446877.083 310471.275  806.522 GPR-3479
#2446883.069    310118.341  759.463 GPR-3481    Removed anaomalous elevations
#2446884.41 310119.746  761.023 GPR-3491    Removed anaomalous elevations
2446886.156 310018.274  787.613 GPR-3492
2446878.989 310451.138  806.071 GPR-3494
2446887.467 310017.859  790.233 GPR-3497
2446881.696 310454.132  806.572 GPR-3502
2446882.182 310471.251  806.07  GPR-3504
2446882.421 310471.146  806.186 GPR-3506
#2446888.515    310124.22   765.859 GPR-3508    Removed anaomalous elevations
2446879.367 310736.826  808.197 GPR-3510
2446884.198 310456.94   807.003 GPR-3511
#2446895.592    309778.839  790.273 GPR-3513    Removed anaomalous elevations
2446879.961 310768.837  808.57  GPR-3515
2446885.937 310502.15   805.626 GPR-3519
```

```
2446887.463 310460.271  807.188 GPR-3522
2446895.357 310015.806  790.08  GPR-3523
#2446893.786    310129.878  772.029 GPR-3525    Removed anaomalous elevations
2446890.224 310463.557  807.108 GPR-3529
#2446901.941    309774.94   794.457 GPR-3530    Removed anaomalous elevations
2446885.014 310792.986  807.331 GPR-3532
#2446901.003    309850.941  764.812 GPR-3533    Removed anaomalous elevations
#2446902.027    309851.796  765.147 GPR-3536    Removed anaomalous elevations
#2446903.782    309853.208  765.711 GPR-3540    Removed anaomalous elevations
2446893.605 310467.072  807.082 GPR-3541
#2446899.144    310135.683  778.313 GPR-3542    Removed anaomalous elevations
2446899.173 310135.719  778.358 GPR-3543
#2446905.683    309854.769  766.332 GPR-3549    Removed anaomalous elevations
#2446908.081    309771.147  798.516 GPR-3552    Removed anaomalous elevations
2446902.056 310138.825  781.725 GPR-3553
2446896.64  310469.926  807.251 GPR-3554
2446896.783 310502.33   806.046 GPR-3556
2446894.037 310733.466  808.599 GPR-3561
2446906.705 310010.788  787.646 GPR-3564
#2446909.865    309858.188  767.685 GPR-3565    Removed anaomalous elevations
2446899.817 310473.182  807.403 GPR-3566
2446896.047 310708.816  807.571 GPR-3569
2446895.598 310764.365  809.213 GPR-3571
#2446907.264    310144.737  786.8   GPR-3574    Removed anaomalous elevations
2446901.612 310502.483  806.315 GPR-3576
#2446912.409    309860.306  768.516 GPR-3578    Removed anaomalous elevations
2446547.028 310869.611  792.339 GPR-358
2446903.523 310476.739  807.344 GPR-3582
#2446913.812    309861.458  768.975 GPR-3583    Removed anaomalous elevations
#2446915.449    309766.609  803.363 GPR-3584    Removed anaomalous elevations
#2446910.135    310148.608  785.36  GPR-3588    Removed anaomalous elevations
#2446915.918    309863.167  769.658 GPR-3590    Removed anaomalous elevations
2446900.94  310787.135  807.525 GPR-3592
2446905.762 310502.516  806.485 GPR-3593
2446906.325 310479.37   807.321 GPR-3594
2446911.988 310151.26   784.329 GPR-3596
2446907.305 310502.432  806.578 GPR-3597
2446907.305 310502.432  806.486 GPR-3598
2446907.305 310502.432  806.431 GPR-3599
#2446918.316    309865.137  770.437 GPR-3602    Removed anaomalous elevations
2446908.222 310481.113  807.142 GPR-3603
2446904.539 310731.165  808.785 GPR-3605
2446916.906 310005.206  788.093 GPR-3606
#2446921.049    309763.171  807.05  GPR-3607    Removed anaomalous elevations
2446914.692 310154.399  784.451 GPR-3608
#2446920.831    309867.217  771.255 GPR-3610    Removed anaomalous elevations
2446910.911 310483.451  807.029 GPR-3612
#2446923.383    309763.647  804.377 GPR-3614    Removed anaomalous elevations
#2446921.68 309867.887  771.527 GPR-3615    Removed anaomalous elevations
2446917.313 310157.246  784.979 GPR-3616
#2446922.674    309868.704  771.852 GPR-3617    Removed anaomalous elevations
2446918.713 310158.616  785.004 GPR-3619
2446914.297 310486.602  806.783 GPR-3622
2446910.103 310760.201  809.375 GPR-3624
2446920.486 310160.721  784.722 GPR-3626
#2446925.452    309871.008  772.756 GPR-3627    Removed anaomalous elevations
#2446928.799    309765.994  798.061 GPR-3631    Removed anaomalous elevations
2446925.193 310000.647  788.457 GPR-3632
2446917.938 310490.485  806.195 GPR-3633
#2446928.435    309873.46   773.726 GPR-3634    Removed anaomalous elevations
2446924.477 310166.722  783.578 GPR-3637
2446914.379 310782.916  807.787 GPR-3638
#2446931.782    309766.626  795.731 GPR-3640    Removed anaomalous elevations
#2446930.19 309874.873  774.29  GPR-3641    Removed anaomalous elevations
2446916.93  310699.078  807.743 GPR-3642
2446917.521 310727.704  809.115 GPR-3646
2446926.973 310169.967  783.482 GPR-3647
#2446931.915    309876.321  774.858 GPR-3649    Removed anaomalous elevations
2446921.849 310494.118  805.554 GPR-3650
#2446933.143    309877.325  775.255 GPR-3652    Removed anaomalous elevations
#2446934.898    309878.737  775.824 GPR-3657    Removed anaomalous elevations
2446930.489 310175.996  784.593 GPR-3660
2446925.325 310497.271  805.009 GPR-3661
#2446936.506    309880.075  776.345 GPR-3663    Removed anaomalous elevations
2446922.049 310779.804  807.985 GPR-3666
#2446939.167    309768.205  789.964 GPR-3668    Removed anaomalous elevations
2446932.969 310180.188  785.372 GPR-3671
2446927.73  310500.551  804.795 GPR-3672
#2446940.045    309768.875  789.158 GPR-3674    Removed anaomalous elevations
#2446940.012    309770.84   788.808 GPR-3676    Removed anaomalous elevations
#2446940.092    309769.604  788.356 GPR-3678    Removed anaomalous elevations
#2446938.32 309881.561  776.933 GPR-3679    Removed anaomalous elevations
2446546.352 310913.87   793.049 GPR-368
2446936.921 309994.216  788.972 GPR-3682
#2446941.31 309771.226  789.153 GPR-3685    Removed anaomalous elevations
2446934.9   310183.46   785.978 GPR-3688
2446929.601 310503.931  804.625 GPR-3689
#2446940.279    309883.159  777.568 GPR-3691    Removed anaomalous elevations
#2446936.341    310185.923  786.435 GPR-3696    Removed anaomalous elevations
#2446941.742    309884.348  778.046 GPR-3698    Removed anaomalous elevations
2446928.242 310755.005  809.662 GPR-3700
2446932.45  310507.292  804.313 GPR-3701
#2446938.214    310189.158  787.032 GPR-3703    Removed anaomalous elevations
#2446943.993    309886.206  778.782 GPR-3706    Removed anaomalous elevations
#2446939.916    310191.99   787.561 GPR-3710    Removed anaomalous elevations
#2446947.312    309772.2    789.793 GPR-3714    Removed anaomalous elevations
2446935.096 310510.394  804.137 GPR-3715
#2446945.602    309887.507  779.299 GPR-3716    Removed anaomalous elevations
2446547.404 310852.36   792.242 GPR-372
2446944.669 309989.976  789.312 GPR-3720
2446931.866 310774.142  808.082 GPR-3721
#2446941.732    310195.114  788.138 GPR-3722    Removed anaomalous elevations
```

```
#2446946.976    309888.659  779.753 GPR-3725    Removed anaomalous elevations
2446933.24  310723.633  809.434 GPR-3726
2446937.121 310513.413  804.159 GPR-3728
#2446948.468    309889.885  780.231 GPR-3733    Removed anaomalous elevations
#2446943.952    310198.865  788.836 GPR-3735    Removed anaomalous elevations
2446938.745 310515.588  804.384 GPR-3736
2446938.812 310572.165  800.249 GPR-3741
2446936.936 310688.562  807.501 GPR-3743
#2446952.226    309774.393  791.283 GPR-3744    Removed anaomalous elevations
#2446945.134    310200.887  789.211 GPR-3745    Removed anaomalous elevations
2446940.41  310517.072  804.679 GPR-3750
#2446951.158    309892.078  781.11  GPR-3752    Removed anaomalous elevations
2446939.887 310575.241  800.448 GPR-3753
#2446946.344    310202.982  789.596 GPR-3754    Removed anaomalous elevations
2446941.207 310517.231  805.057 GPR-3756
#2446940.446    310571.937  798.867 GPR-3758    Removed anaomalous elevations
2446940.607 310580.095  804.168 GPR-3759
2446942.118 310517.719  805.254 GPR-3762
2446938.216 310752.404  809.829 GPR-3763
2446941.532 310570.79   802.17  GPR-3765
#2446952.854    309893.489  781.66  GPR-3767    Removed anaomalous elevations
2446547.256 310861.241  792.086 GPR-377
#2446948.074    310205.923  790.144 GPR-3771    Removed anaomalous elevations
#2446954.024    309894.419  782.037 GPR-3773    Removed anaomalous elevations
2446944.158 310519.865  805.107 GPR-3774
#2446949.429    310208.203  790.567 GPR-3775    Removed anaomalous elevations
#2446956.899    309776.801  792.885 GPR-3776    Removed anaomalous elevations
2446953.553 309985.136  789.703 GPR-3777
#2446950.726    310210.409  790.976 GPR-3780    Removed anaomalous elevations
#2446955.984    309896.017  782.673 GPR-3781    Removed anaomalous elevations
#2446951.735    310212.173  791.298 GPR-3783    Removed anaomalous elevations
2446957.446 309897.243  783.146 GPR-3786
2446947.079 310522.462  805.463 GPR-3787
2446946.787 310557.844  806.301 GPR-3789
#2446959.809    309778.305  793.886 GPR-3790    Removed anaomalous elevations
#2446952.975    310214.233  791.683 GPR-3791    Removed anaomalous elevations
#2446960.544    309778.645  794.136 GPR-3792    Removed anaomalous elevations
2446946.538 310642.339  806.112 GPR-3794
2446959.055 309898.544  783.672 GPR-3796
2446946.692 310641.978  805.929 GPR-3797
2446946.991 310641.801  805.892 GPR-3800
2446947.123 310641.002  806.003 GPR-3802
#2446954.877    310217.505  792.289 GPR-3803    Removed anaomalous elevations
2446949.827 310524.765  806.153 GPR-3805
2446948.022 310647.534  805.817 GPR-3807
2446961.336 309898.618  784.003 GPR-3809
2446547.608 310845.41   792.267 GPR-381
2446947.91  310720.236  809.535 GPR-3811
2446949.006 310656.106  805.691 GPR-3812
2446949.526 310633.761  805.886 GPR-3813
2446947.299 310767.7    809.02  GPR-3814
2446956.803 310222.888  788.843 GPR-3819
2446547.759 310838.095  792.078 GPR-382
2446952.159 310527.133  806.673 GPR-3821
2446962.349 309980.295  790.089 GPR-3827
#2446966.045    309782.996  796.727 GPR-3830    Removed anaomalous elevations
2446952.576 310623.254  805.739 GPR-3833
2446959.582 310226.939  789.266 GPR-3835
2446965.263 309897.773  784.354 GPR-3839
#2446967.536    309784.259  796.032 GPR-3842    Removed anaomalous elevations
2446955.225 310529.915  806.902 GPR-3844
2446953.041 310663.054  805.661 GPR-3846
2446955.922 310530.8    806.65  GPR-3850
2446961.144 310229.222  789.502 GPR-3851
2446955.249 310615.798  805.774 GPR-3855
#2446969.368    309784.581  794.576 GPR-3857    Removed anaomalous elevations
#2446956.739    310549.381  808.202 GPR-3859    Removed anaomalous elevations
2446957.336 310533.117  806.19  GPR-3862
#2446970.019    309784.701  794.056 GPR-3864    Removed anaomalous elevations
2446962.592 310231.285  789.719 GPR-3865
2446955.925 310660.735  805.367 GPR-3867
2446967.375 309977.538  790.31  GPR-3868
2446969.636 309896.826  784.746 GPR-3874
2446964.56  310234.158  790.017 GPR-3877
2446959.735 310536.798  804.869 GPR-3879
2446959.305 310607.237  806.034 GPR-3885
2446546.699 310921.521  792.73  GPR-389
#2446973.683    309785.38   791.123 GPR-3890    Removed anaomalous elevations
2446961.347 310539.701  804.703 GPR-3893
2446959.208 310675.425  807.027 GPR-3894
#2446974.109    309786.516  788.098 GPR-3895    Removed anaomalous elevations
#2446974.16 309787.027  787.644 GPR-3897    Removed anaomalous elevations
2446548.422 310819.611  791.593 GPR-390
#2446974.261    309788.048  786.762 GPR-3901    Removed anaomalous elevations
#2446974.31 309788.704  786.19  GPR-3903    Removed anaomalous elevations
#2446974.333    309789.105  785.808 GPR-3904    Removed anaomalous elevations
#2446974.409    309789.834  785.196 GPR-3907    Removed anaomalous elevations
2446967.079 310237.804  790.398 GPR-3908
2446961.7   310602.253  806.177 GPR-3913
2446972.461 309974.747  790.533 GPR-3917
2446963.268 310541.844  804.396 GPR-3919
2446548.264 310830.895  791.852 GPR-392
2446963.119 310654.192  805.135 GPR-3929
2446975.825 309895.473  785.303 GPR-3930
2446964.215 310597.198  806.39  GPR-3931
2446962.468 310745.016  810.053 GPR-3936
2446965.833 310544.435  803.939 GPR-3937
2446971.362 310244.028  791.047 GPR-3944
2446964.182 310716.793  809.618 GPR-3947
2446966.682 310591.45   806.692 GPR-3950
2446968.224 310546.842  803.648 GPR-3951
2446978.324 309971.568  790.79  GPR-3952
```

```
2446973.765 310247.49   791.411 GPR-3953
2446968.231 310585.651  806.374 GPR-3956
2446965.748 310761.672  809.317 GPR-3958
2446980.465 309894.494  785.72  GPR-3959
#2446982.308    309790.803  791.606 GPR-3960    Removed anaomalous elevations
#2446982.334    309792.842  791.29  GPR-3961    Removed anaomalous elevations
2446969.267 310580.353  805.842 GPR-3962
#2446982.611    309790.407  791.673 GPR-3963    Removed anaomalous elevations
#2446982.62 309795.25   790.75  GPR-3964    Removed anaomalous elevations
#2446982.879    309790.339  791.578 GPR-3966    Removed anaomalous elevations
2446975.595 310249.778  791.806 GPR-3967
#2446983.198    309797.88   790.423 GPR-3968    Removed anaomalous elevations
2446548.901 310812.192  791.638 GPR-397
2446970.496 310574.184  805.219 GPR-3970
2446970.933 310549.726  803.464 GPR-3971
2446970.747 310571.567  805.892 GPR-3973
2446969.586 310648.548  804.964 GPR-3976
2446971.004 310568.623  806.955 GPR-3979
#2446983.796    309801.167  790.141 GPR-3980    Removed anaomalous elevations
2446971.05  310569.388  807.355 GPR-3982
2446967.448 310787.767  811.595 GPR-3983
#2446984.235    309805.07   789.588 GPR-3984    Removed anaomalous elevations
#2446984.767    309808.756  789.038 GPR-3987    Removed anaomalous elevations
#2446984.941    309812.545  788.812 GPR-3989    Removed anaomalous elevations
2446977.737 310251.087  792.675 GPR-3990
#2446985.386    309816.084  788.815 GPR-3991    Removed anaomalous elevations
#2446984.311    309893.175  786.197 GPR-3992    Removed anaomalous elevations
#2446985.702    309818.455  788.816 GPR-3994    Removed anaomalous elevations
2446973.802 310553.67   803.396 GPR-3995
2446978.941 310251.763  793.463 GPR-3997
#2446986.218    309821.304  788.04  GPR-3998    Removed anaomalous elevations
2446970.216 310787.122  811.667 GPR-3999
2446518.619 310042.456  779.505 GPR-4
2446549.048 310806.916  791.726 GPR-400
#2446986.88 309824.3    785.69  GPR-4002    Removed anaomalous elevations
#2446987.368    309827.002  783.126 GPR-4004    Removed anaomalous elevations
2446980.61  310252.992  794.269 GPR-4005
2446975.808 310557.817  803.039 GPR-4006
#2446987.968    309830.18   780.509 GPR-4007    Removed anaomalous elevations
#2446988.53 309832.009  780.26  GPR-4009    Removed anaomalous elevations
#2446987.836    309893.379  786.622 GPR-4010    Removed anaomalous elevations
2446977.542 310560.467  802.883 GPR-4014
2446973.791 310786.052  811.843 GPR-4015
2446973.79  310786.089  811.887 GPR-4016
2446982.687 310254.665  794.622 GPR-4017
2446976.784 310641.714  804.914 GPR-4019
#2446990.486    309835.61   783.789 GPR-4020    Removed anaomalous elevations
2446977.344 310661.528  806.62  GPR-4021
2446984.501 310256.078  794.901 GPR-4023
2446979.467 310562.392  802.733 GPR-4024
#2446991.182    309893.58   786.565 GPR-4025    Removed anaomalous elevations
2446980.866 310563.799  802.868 GPR-4026
#2446993.044    309840.458  784.236 GPR-4027    Removed anaomalous elevations
2446978.197 310740.363  810.039 GPR-4030
2446991.139 309965.701  783.428 GPR-4031
2446978.796 310713.213  809.985 GPR-4032
2446982.112 310565.531  802.738 GPR-4033
2446987.396 310258.493  794.776 GPR-4034
#2446994.374    309842.482  784.448 GPR-4035    Removed anaomalous elevations
2446982.733 310567.398  802.731 GPR-4037
2446979.996 310756.921  809.569 GPR-4038
#2446995.994    309844.876  784.7   GPR-4040    Removed anaomalous elevations
2446984.293 310569.827  802.732 GPR-4041
2446994.663 309964.121  783.524 GPR-4042
#2446996.401    309893.449  786.569 GPR-4046    Removed anaomalous elevations
2446990.88  310261.099  794.026 GPR-4048
2446984.948 310633.84   804.805 GPR-4049
#2446998.278    309848.336  785.061 GPR-4050    Removed anaomalous elevations
2446986.301 310572.117  802.585 GPR-4051
#2446999.29 309849.882  785.47  GPR-4054    Removed anaomalous elevations
2446998.938 309961.972  784.154 GPR-4061
2446993.983 310263.481  793.987 GPR-4062
#2446989.369    310574.753  801.076 GPR-4063    Removed anaomalous elevations
#2447001.64 309852.943  787.08  GPR-4065    Removed anaomalous elevations
2446995.238 310264.667  794.051 GPR-4066
#2447001.486    309892.514  786.31  GPR-4067    Removed anaomalous elevations
2446549.286 310801.532  791.614 GPR-407
2447001.445 309960.921  784.506 GPR-4070
#2447003.442    309855.121  789.324 GPR-4072    Removed anaomalous elevations
#2446992.58 310575.971  798.104 GPR-4078    Removed anaomalous elevations
2446997.738 310267.585  794.063 GPR-4079
#2447004.347    309891.579  785.655 GPR-4081    Removed anaomalous elevations
#2447005.886    309859.676  788.256 GPR-4087    Removed anaomalous elevations
#2447005.98 309859.35   788.968 GPR-4088    Removed anaomalous elevations
2446557.545 310308.033  790.797 GPR-409
2446999.882 310270.606  794.663 GPR-4092
2446994.053 310624.671  804.611 GPR-4093
2446993.08  310709.919  809.83  GPR-4095
#2447007.024    309889.257  785.655 GPR-4098    Removed anaomalous elevations
#2446996.027    310577.23   793.661 GPR-4100    Removed anaomalous elevations
#2447008.252    309861.754  790.839 GPR-4102    Removed anaomalous elevations
#2447008.343    309861.682  790.967 GPR-4103    Removed anaomalous elevations
#2447008.94 309861.401  791.843 GPR-4105    Removed anaomalous elevations
#2446997.346    310579.91   793.921 GPR-4107    Removed anaomalous elevations
#2447009.51 309884.165  786.529 GPR-4109    Removed anaomalous elevations
#2447010.341    309862.735  791.552 GPR-4112    Removed anaomalous elevations
#2446998.467    310582.076  794.41  GPR-4113    Removed anaomalous elevations
2447008.866 309958.533  784.866 GPR-4114
2446995.965 310752.09   809.937 GPR-4116
#2447010.87 309879.054  787.557 GPR-4119    Removed anaomalous elevations
2446998.364 310641.709  805.929 GPR-4120
#2446999.864    310585.376  797.531 GPR-4121    Removed anaomalous elevations
```

```
#2447011.784    309874.009  788.603 GPR-4122    Removed anaomalous elevations
#2447012.425    309869.286  789.836 GPR-4126    Removed anaomalous elevations
2447001.388 310616.711  804.42  GPR-4132
#2447002.022    310589.308  800.843 GPR-4136    Removed anaomalous elevations
2447001.638 310617.771  804.307 GPR-4138
2447013.18  309957.585  784.706 GPR-4139
2447000.718 310776.452  812.469 GPR-4144
2447001.457 310733.759  810.553 GPR-4146
2447000.777 310776.489  812.43  GPR-4150
2447000.897 310776.346  812.452 GPR-4152
#2447004.139    310592.11   801.648 GPR-4153    Removed anaomalous elevations
2447006.026 310594.508  804.049 GPR-4159
2447018.298 309956.432  784.438 GPR-4164
2447005.19  310774.924  812.504 GPR-4168
2447008.386 310597.022  805.676 GPR-4169
2446549.438 310797.711  791.474 GPR-417
2447008.603 310705.117  809.829 GPR-4173
2447011.128 310599.653  806.223 GPR-4176
2447013.081 310601.651  806.188 GPR-4183
2447023.949 309955.325  784.843 GPR-4184
2447011.125 310747.791  810.04  GPR-4186
2447011.954 310772.78   812.519 GPR-4189
2447015.384 310623.57   805.261 GPR-4193
2447015.996 310604.612  805.857 GPR-4194
2447017.648 310606.897  805.563 GPR-4197
2447014.988 310772.175  811.649 GPR-4198
2446525.856 309944.06   777.985 GPR-42
2447018.94  310620.098  804.023 GPR-4209
2447019.505 310609.294  805.391 GPR-4212
2447031.181 309955.409  785.981 GPR-4213
2447019.533 310702.059  809.868 GPR-4215
2447032.45  309955.721  785.899 GPR-4216
2447023.09  310727.056  810.679 GPR-4222
2447025.811 310616.899  805.756 GPR-4224
2447024.561 310768.693  811.278 GPR-4226
2447025.835 310743.776  810.345 GPR-4231
2447028.514 310620.148  806.07  GPR-4235
2446557.726 310307.854  790.731 GPR-424
2447041.261 309957.105  785.502 GPR-4242
2447031.971 310624.356  806.271 GPR-4245
2447031.503 310698.872  810.144 GPR-4247
2447035.055 310627.865  806.691 GPR-4251
2447034.681 310764.42   811.177 GPR-4258
2447036.322 310740.601  810.465 GPR-4262
2447050.665 309958.463  785.086 GPR-4266
2447039.855 310633.37   807.045 GPR-4267
2447041.901 310720.67   810.854 GPR-4272
2447043.815 310637.659  807.453 GPR-4273
2447044.369 310695.263  810.182 GPR-4276
2447044.896 310759.784  810.822 GPR-4280
2447058.916 309959.656  784.933 GPR-4281
2447046.956 310737.501  810.75  GPR-4283
2447049.144 310643.427  807.58  GPR-4286
2447061.574 309960.21   784.824 GPR-4288
2447052.934 310647.24   807.908 GPR-4294
2447052.549 310716.734  811.185 GPR-4295
#2447059.141    310322.16   794.032 GPR-4296    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4297    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4298    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4299    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4300    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4301    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4302    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4303    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4304    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4305    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4306    Removed anaomalous elevations
#2447059.141    310322.16   794.032 GPR-4307    Removed anaomalous elevations
2447065.624 309960.896  784.748 GPR-4316
2447054.711 310691.867  810.394 GPR-4319
2447053.907 310756.221  810.942 GPR-4320
2447067.726 309961.041  784.929 GPR-4321
2447056.83  310651.783  808.283 GPR-4322
2447055.615 310735.57   810.888 GPR-4323
#2447063.387    310323.505  794.284 GPR-4327    Removed anaomalous elevations
2447057.849 310734.879  810.831 GPR-4330
2447058.269 310714.972  811.411 GPR-4331
2447059.385 310655.029  808.94  GPR-4332
#2447065.611    310323.505  794.341 GPR-4338    Removed anaomalous elevations
2447072.495 309961.302  785.148 GPR-4340
2447060.391 310690.761  810.711 GPR-4341
#2447067.147    310323.786  794.358 GPR-4344    Removed anaomalous elevations
2447061.734 310658.163  809.367 GPR-4346
2447061.016 310713.78   811.476 GPR-4348
2447061.6   310733.922  810.707 GPR-4351
2447061.987 310733.82   810.617 GPR-4357
2447061.987 310733.82   810.615 GPR-4358
2447061.688 310753.62   811.194 GPR-4359
2447063.342 310712.981  811.527 GPR-4362
#2447070.314    310324.093  794.363 GPR-4363    Removed anaomalous elevations
2447064.807 310662.291  809.377 GPR-4364
2447065.491 310712.07   811.52  GPR-4367
2447065.581 310711.999  811.542 GPR-4369
#2447072.679    310324.46   794.634 GPR-4373    Removed anaomalous elevations
2447067.013 310748.866  811.521 GPR-4380
2447068.669 310667.125  809.568 GPR-4381
#2447075.015    310324.827  794.922 GPR-4384    Removed anaomalous elevations
2447069.303 310689.598  811.019 GPR-4385
2447068.536 310741.101  811.402 GPR-4386
2447081.552 309962.144  785.146 GPR-4387
#2447076.729    310325.146  795.367 GPR-4390    Removed anaomalous elevations
2447070.584 310731.997  810.777 GPR-4394
```

```
2447078.596 310305.554  790.974 GPR-4398
2447078.596 310305.554  790.974 GPR-4399
2447078.596 310305.554  790.974 GPR-4400
2447072.245 310689.174  811.096 GPR-4401
2447072.275 310689.174  811.11  GPR-4403
2447072.304 310689.175  811.019 GPR-4406
2447078.842 310306.833  791.03  GPR-4408
2447072.855 310672.109  809.947 GPR-4411
2447078.991 310306.799  790.255 GPR-4412
2447072.271 310723.251  810.612 GPR-4416
2447073.762 310715.594  810.731 GPR-4423
2447074.896 310709.788  810.802 GPR-4426
#2447081.471    310325.189  795.939 GPR-4427    Removed anaomalous elevations
2447076.228 310676.061  810.331 GPR-4428
2447076.345 310702.894  810.791 GPR-4430
2447083.217 310303.993  789.363 GPR-4433
#2447084.55 310325.459  796.132 GPR-4441    Removed anaomalous elevations
2447078.688 310679.67   810.156 GPR-4443
2447079.297 310691.148  810.524 GPR-4444
2447079.873 310685.005  809.971 GPR-4447
2447094.724 309963.274  785.638 GPR-4448
#2447089.168    310325.827  796.229 GPR-4449    Removed anaomalous elevations
2446558.197 310299.088  789.023 GPR-445
2447090.402 310299.744  787.256 GPR-4450
2447098.486 309963.482  785.882 GPR-4452
#2447093.543    310326.555  796.354 GPR-4453    Removed anaomalous elevations
2447103.608 309771.377  779.907 GPR-4455
2447103.647 309774.399  781 GPR-4456
2447103.696 309776.766  781.856 GPR-4457
2447103.74  309779.461  782.834 GPR-4459
2447103.813 309782.193  783.835 GPR-4462
2447103.809 309782.448  783.927 GPR-4463
#2447095.25 310327.275  796.325 GPR-4464    Removed anaomalous elevations
2447095.956 310295.54   785.531 GPR-4465
2447104.69  309790.108  784.586 GPR-4466
#2447096.21 310328.383  796.226 GPR-4467    Removed anaomalous elevations
2447105.784 309797.407  785.996 GPR-4468
2447103.603 309964.149  785.878 GPR-4469
2447107.675 309804.902  785.646 GPR-4470
2447099.754 310291.744  789.431 GPR-4471
#2447099.337    310331.093  796.985 GPR-4473    Removed anaomalous elevations
2447108.397 309807.79   785.51  GPR-4475
2447109.121 309810.606  785.379 GPR-4476
2447110.345 309815.468  785.151 GPR-4478
2447112.101 309820.376  785.848 GPR-4479
#2447104.092    310333.902  797.432 GPR-4481    Removed anaomalous elevations
2447110.792 309964.997  785.422 GPR-4483
2447105.421 310287.907  792.456 GPR-4484
2447113.683 309823.278  786.587 GPR-4485
#2447113.506    309837.51   764.874 GPR-4486    Removed anaomalous elevations
#2447114.065    309839.522  765.946 GPR-4488    Removed anaomalous elevations
#2447114.288    309840.363  766.397 GPR-4489    Removed anaomalous elevations
#2447114.707    309841.935  767.221 GPR-4491    Removed anaomalous elevations
#2447115.126    309843.471  768.045 GPR-4492    Removed anaomalous elevations
#2447115.348    309844.385  768.53  GPR-4494    Removed anaomalous elevations
#2447115.655    309845.519  769.139 GPR-4495    Removed anaomalous elevations
#2447108.385    310336.012  797.48  GPR-4499    Removed anaomalous elevations
2446522.723 310152.289  785.908 GPR-45
#2447117.022    309850.639  771.858 GPR-4501    Removed anaomalous elevations
#2447118.085    309854.479  773.912 GPR-4503    Removed anaomalous elevations
2447111.848 310282.88   792.852 GPR-4507
#2447118.978    309857.843  775.694 GPR-4508    Removed anaomalous elevations
#2447119.842    309861.098  777.421 GPR-4511    Removed anaomalous elevations
2447120.848 309864.792  779.395 GPR-4515
#2447113.891    310338.252  797.588 GPR-4516    Removed anaomalous elevations
2447120.304 309965.228  785.322 GPR-4517
2447125.428 309867.453  779.946 GPR-4522
2447119.218 310278.233  793.943 GPR-4523
2447124.463 309966.462  786.697 GPR-4524
2447124.463 309966.462  786.725 GPR-4525
#2447118.242    310340.472  797.509 GPR-4527    Removed anaomalous elevations
2447124.613 309966.392  786.678 GPR-4529
2447125.269 309966.148  784.721 GPR-4530
2447125.927 309967.542  781.657 GPR-4532
#2447121.874    310343.081  796.68  GPR-4535    Removed anaomalous elevations
2447124.786 310274.94   793.523 GPR-4536
2447129.983 309966.081  786.902 GPR-4537
2447132.157 309869.239  781.088 GPR-4538
#2447124.782    310344.695  795.92  GPR-4539    Removed anaomalous elevations
2447134.402 309965.972  787.174 GPR-4543
#2447130.16 310345.695  795.664 GPR-4549    Removed anaomalous elevations
2447131.612 310270.904  793.007 GPR-4551
2447138.606 309964.513  787.083 GPR-4554
2447140.238 309871.74   781.4   GPR-4555
#2447134.207    310346.527  795.619 GPR-4556    Removed anaomalous elevations
2447141.788 309962.127  786.556 GPR-4558
2447137.75  310267.219  792.982 GPR-4559
#2447137.339    310347.161  795.584 GPR-4561    Removed anaomalous elevations
2447144.687 309960.719  784.877 GPR-4562
2447147.94  309873.871  781.361 GPR-4564
2447146.805 309959.88   784.727 GPR-4565
#2447140.606    310348.563  795.47  GPR-4566    Removed anaomalous elevations
#2447142.309    310349.574  795.35  GPR-4569    Removed anaomalous elevations
2447146.245 310262.628  793.749 GPR-4570
2447152.472 309957.79   784.429 GPR-4572
2447155.556 309877.565  781.663 GPR-4574
2447155.556 309955.985  784.51  GPR-4576
2447151.929 310259.519  793.428 GPR-4578
2447157.398 309952.156  785.298 GPR-4579
2447156.279 310049.707  785.657 GPR-4581
2447158.168 309950.422  786.042 GPR-4583
2447156.875 310031.732  784.936 GPR-4584
```

```
2447158.102 310018.537  784.788 GPR-4586
2447159.33  309948.257  786.486 GPR-4587
2447157.911 310067.428  784.499 GPR-4589
2447160.238 310004.156  784.036 GPR-4591
2447160.547 310080.032  785.569 GPR-4593
#2447158.048    310264.135  801.753 GPR-4595    Removed anaomalous elevations
2447158.723 310253.807  793.226 GPR-4596
2447165.102 309882.857  782.794 GPR-4597
2447163.763 309984.737  783.951 GPR-4598
2446555.071 310517.584  794.898 GPR-460
2447164.927 309943.289  786.137 GPR-4600
#2447159.706    310267.803  801.667 GPR-4601    Removed anaomalous elevations
2447162.788 310089.681  787.381 GPR-4602
2447164.989 309971.651  784.84  GPR-4603
2447165.595 309961.94   784.489 GPR-4604
#2447161.309    310271.252  801.449 GPR-4606    Removed anaomalous elevations
2447161.905 310247.852  793.057 GPR-4607
#2447161.566    310271.839  801.414 GPR-4608    Removed anaomalous elevations
2447168.027 309938.681  785.738 GPR-4609
2447168.563 309949.248  784.455 GPR-4610
2447167.348 310104.246  790.125 GPR-4611
#2447164.513    310278.222  801.012 GPR-4612    Removed anaomalous elevations
2447171.453 309871.75   784.63  GPR-4613
2447171.54  309871.86   784.012 GPR-4614
2447171.689 309871.79   784.316 GPR-4615
2447171.94  309887.012  783.588 GPR-4616
2447171.193 309933.709  786.116 GPR-4617
2447171.302 309939.609  784.142 GPR-4618
2447173.068 309870.903  784.411 GPR-4620
#2447166.629    310282.881  800.72  GPR-4621    Removed anaomalous elevations
2447167.43  310241.828  792.646 GPR-4622
2447173.263 309928.647  785.857 GPR-4623
2447174.074 309894.183  783.615 GPR-4625
2447174.594 309870.018  784.585 GPR-4626
2447174.071 309931.791  783.909 GPR-4628
2447174.703 309922.263  784.516 GPR-4630
2447176.124 309902.773  783.703 GPR-4634
2447176.349 309915.992  784.557 GPR-4638
2447177.477 309867.772  784.617 GPR-4643
2447176.831 309910.212  784.241 GPR-4644
2447173.496 310115.999  791.083 GPR-4645
#2447170.977    310292.347  800.127 GPR-4646    Removed anaomalous elevations
2447178.206 309920.21   783.317 GPR-4647
2447180.189 309865.16   784.409 GPR-4651
2447179.477 309913.314  783.375 GPR-4652
2447180.198 309905.608  783.402 GPR-4658
2446555.292 310509.615  794.591 GPR-466
#2447174.21 310299.354  799.687 GPR-4661    Removed anaomalous elevations
2447175.659 310237.196  792.994 GPR-4662
2447182.122 309863.008  784.366 GPR-4663
2447183.786 309860.996  784.249 GPR-4664
2447184.787 309859.593  784.075 GPR-4665
#2447177.358    310306.178  799.26  GPR-4666    Removed anaomalous elevations
2447180.872 310233.897  793.703 GPR-4667
2447182.837 310130.061  789.987 GPR-4668
2447187.937 309855.605  783.595 GPR-4669
#2447181.133    310314.432  798.743 GPR-4670    Removed anaomalous elevations
2447192.294 309850.289  782.666 GPR-4672
2447188.026 310137.101  790.65  GPR-4673
#2447185.195    310323.274  798.188 GPR-4674    Removed anaomalous elevations
2447187.95  310228.954  794.282 GPR-4676
#2447188.373    310331.846  798.041 GPR-4678    Removed anaomalous elevations
2447196.768 309845.048  782.599 GPR-4679
2447192.447 310142.199  790.867 GPR-4680
2447198.133 309843.178  782.515 GPR-4681
2447200.129 309839.024  782.327 GPR-4682
2447193.88  310223.519  794.965 GPR-4683
2447201.952 309834.613  782.066 GPR-4684
2447194.161 310334.964  797.165 GPR-4685
2447198.96  310149.844  790.631 GPR-4687
2447204.632 309830.289  781.91  GPR-4688
2447205.83  309829.544  781.914 GPR-4689
2447199.58  310217.679  794.712 GPR-4690
2447209.8   309827.899  781.918 GPR-4693
2447202.034 310337.425  796.122 GPR-4694
2447204.214 310213.533  794.679 GPR-4695
2447206.287 310158.448  791.339 GPR-4696
2447211.918 309827.097  781.724 GPR-4697
2447201.136 310544.672  800.781 GPR-4699
2446523.836 310095.951  788.624 GPR-47
2447201.136 310544.672  800.781 GPR-4700
2447201.136 310544.672  800.781 GPR-4701
2447201.136 310544.672  800.781 GPR-4702
2447201.136 310544.672  800.781 GPR-4703
2447201.136 310544.672  800.781 GPR-4704
2447201.136 310544.672  800.781 GPR-4705
2447201.136 310544.672  800.781 GPR-4706
2447201.136 310544.672  800.781 GPR-4707
2447201.136 310544.672  800.781 GPR-4708
2447201.136 310544.672  800.781 GPR-4709
2447201.136 310544.672  800.781 GPR-4710
2447201.136 310544.672  800.781 GPR-4711
2447201.136 310544.672  800.781 GPR-4712
2447201.136 310544.672  800.781 GPR-4713
2447201.136 310544.672  800.781 GPR-4714
2447201.136 310544.672  800.781 GPR-4715
2447201.136 310544.672  800.781 GPR-4716
2447201.136 310544.672  800.781 GPR-4717
2447201.136 310544.672  800.781 GPR-4718
2447201.136 310544.672  800.781 GPR-4719
2447201.136 310544.672  800.781 GPR-4720
2447201.136 310544.672  800.781 GPR-4721
```

```
2447201.136 310544.672  800.781 GPR-4722
2447201.136 310544.672  800.781 GPR-4723
2447201.136 310544.672  800.781 GPR-4724
2447201.136 310544.672  800.781 GPR-4725
2447201.136 310544.672  800.781 GPR-4726
2447201.136 310544.672  800.781 GPR-4727
2447201.136 310544.672  800.781 GPR-4728
2447201.136 310544.672  800.781 GPR-4729
2447201.136 310544.672  800.781 GPR-4730
2447201.136 310544.672  800.781 GPR-4731
2447201.136 310544.672  800.781 GPR-4732
2447201.136 310544.672  800.781 GPR-4733
2447201.136 310544.672  800.781 GPR-4734
2447201.136 310544.672  800.781 GPR-4735
2447201.136 310544.672  800.781 GPR-4736
2447201.136 310544.672  800.781 GPR-4737
2447201.136 310544.672  800.781 GPR-4738
2447201.136 310544.672  800.781 GPR-4739
2447201.136 310544.672  800.781 GPR-4740
2447201.136 310544.672  800.781 GPR-4741
2447201.596 310545.481  800.648 GPR-4792
2447214.353 309826.882  781.091 GPR-4794
2447204.285 310549.567  799.741 GPR-4795
2447216.425 309827.026  780.958 GPR-4796
2447217.051 309826.818  780.964 GPR-4799
2447210.846 310208.692  794.69  GPR-4800
2447208.788 310339.503  795.486 GPR-4802
2447217.529 309826.644  780.969 GPR-4804
2447206.447 310553.28   798.395 GPR-4808
2447213.616 310166.907  793.205 GPR-4811
2447209.956 310557.925  798.938 GPR-4816
2447222.621 309825.236  780.864 GPR-4817
2447215.445 310342.053  793.917 GPR-4818
2447212.973 310561.908  799.441 GPR-4821
2447226.206 309823.585  780.468 GPR-4822
2447220.805 310201.613  795.365 GPR-4824
2447219.475 310343.941  794.061 GPR-4826
2447215.96  310565.853  799.935 GPR-4827
2447222.502 310176.266  794.056 GPR-4828
2447229.85  309820.114  780.156 GPR-4831
2447217.846 310568.323  800.247 GPR-4832
2447231.6   309818.323  779.904 GPR-4833
2447220.667 310571.61   800.882 GPR-4837
2447235.186 309814.814  779.375 GPR-4838
2447229.578 310196.407  795.538 GPR-4839
2447223.46  310574.752  801.58  GPR-4840
2447230.567 310183.245  794.044 GPR-4842
2447229.465 310347.493  794.521 GPR-4844
2447238.559 309811.594  778.946 GPR-4845
2447232.338 310185.531  794.596 GPR-4846
2447232.367 310185.532  794.831 GPR-4848
2447232.485 310180.255  794.198 GPR-4849
2447232.397 310185.496  794.63  GPR-4850
2447232.397 310185.532  794.858 GPR-4851
2447232.397 310185.532  794.539 GPR-4852
2447232.397 310185.532  794.644 GPR-4853
2447232.457 310185.497  794.723 GPR-4854
2447232.454 310185.642  794.806 GPR-4856
2447232.454 310185.642  794.803 GPR-4857
2447232.486 310185.497  794.519 GPR-4858
2447232.719 310180.404  794.414 GPR-4860
2447232.634 310185.5    794.604 GPR-4861
2447232.723 310185.501  794.495 GPR-4864
2447226.196 310577.819  802.242 GPR-4865
2447232.783 310185.466  794.229 GPR-4867
2447232.812 310185.503  794.079 GPR-4869
2447232.901 310185.504  794.045 GPR-4872
2447233.303 310188.096  795.538 GPR-4876
2447240.558 309809.079  778.826 GPR-4881
2447234.515 310182.91   794.817 GPR-4882
2447235.291 310186.163  795.737 GPR-4886
2447229.219 310581.401  802.368 GPR-4890
2447242.947 309806.206  778.767 GPR-4893
2446526.196 309959.283  777.614 GPR-49
2447238.961 310193.651  795.45  GPR-4905
2447245.537 309803.773  778.4   GPR-4906
2447236.571 310349.795  794.87  GPR-4908
2446558.581 310333.098  788.441 GPR-491
2447240.456 310191.127  795.047 GPR-4914
2447247.075 309802.234  778.228 GPR-4915
2447234.562 310586.295  802.091 GPR-4918
2447241.72  310182.848  795.878 GPR-4920
2447243.521 310190.377  795.213 GPR-4928
2447252.052 309797.074  778.161 GPR-4936
2447245.729 310198.424  795.178 GPR-4938
2447239.491 310589.362  802.768 GPR-4940
2447243.517 310350.967  795.786 GPR-4941
2447254.504 309793.984  778.106 GPR-4944
2447248.407 310180.01   795.447 GPR-4947
2447255.197 309791.52   778.729 GPR-4951
2447255.835 309788.836  779.796 GPR-4956
2447256.309 309787.06   780.141 GPR-4958
2447243.069 310591.716  803.017 GPR-4959
2446555.807 310503.616  794.543 GPR-496
2447257.231 309785.109  780.349 GPR-4961
2447257.763 309783.407  782.26  GPR-4966
2447258.714 309781.493  782.895 GPR-4967
2447249.527 310351.431  796.556 GPR-4968
2447252.373 310208.874  794.81  GPR-4970
2447262.276 309777.621  782.921 GPR-4972
2447249.251 310596.078  803.011 GPR-4973
2447257.045 310173.965  795.375 GPR-4974
```

2447255.581	310351.022	797.736	GPR-4975
2447257.877	310218.394	794.889	GPR-4976
2447267.353	309773.591	782.555	GPR-4979
2447255.106	310600.471	802.387	GPR-4980
2447262.632	310226.556	794.936	GPR-4983
2447272.435	309771.055	782.633	GPR-4986
2447259.347	310603.891	802.762	GPR-4989
2447264.799	310349.282	797.807	GPR-4991
2447268.153	310165.557	794.466	GPR-4993
2447267.409	310233.407	795.28	GPR-4995
2447262.3	310606.38	803.419	GPR-4996
2447277.229	309769.751	783.758	GPR-4998
2446519.707	310035.848	779.225	GPR-5
2447271.946	310240.472	795.875	GPR-5005
2447273.068	310347.599	797.62	GPR-5006
2447277.115	310157.843	793.737	GPR-5008
2447275.936	310246.51	795.648	GPR-5009
2446558.837	310331.937	788.973	GPR-501
2447284.958	309768.46	784.53	GPR-5010
2447277.206	310346.576	797.725	GPR-5011
2447289.16	309767.146	784.643	GPR-5014
2447283.95	310149.729	793.105	GPR-5015
2447282.247	310257.391	795.145	GPR-5016
2447292.116	309765.885	784.607	GPR-5018
2447278.479	310604.938	801.795	GPR-5022
2447278.61	310607.78	802.019	GPR-5029
2447279.13	310599.706	801.499	GPR-5034
2447279.149	310610.993	802.324	GPR-5037
2447279.891	310594.95	801.374	GPR-5038
2447280.289	310615.526	803.022	GPR-5040
2447281.025	310590.927	801.035	GPR-5041
2447286.581	310264.162	794.66	GPR-5042
2447288.606	310144.272	791.532	GPR-5043
2447285.707	310343.404	798.358	GPR-5044
2447281.318	310617.837	803.389	GPR-5045
2447282.629	310587.131	800.79	GPR-5046
2447297.084	309764.802	783.958	GPR-5049
2446556.2	310497.798	794.808	GPR-505
2447283.294	310621.983	803.888	GPR-5050
2447284.017	310583.878	800.58	GPR-5051
2447285.684	310579.901	800.324	GPR-5054
2447285.38	310626.715	804.292	GPR-5056
2447290.19	310341.185	798.874	GPR-5057
2447291.87	310272.296	793.891	GPR-5060
2447300.588	309764.424	783.245	GPR-5065
2447294.938	310136.041	791.182	GPR-5068
2447287.231	310631.223	804.362	GPR-5069
2447288.334	310575.649	800.162	GPR-5070
2447289.223	310636.244	804.438	GPR-5071
2447290.488	310572.699	800.072	GPR-5072
2447295.578	310277.491	793.732	GPR-5073
2447290.47	310639.651	804.454	GPR-5074
2447292.343	310569.854	800.065	GPR-5075
2447297.251	310337.262	798.262	GPR-5076
2447300.895	310127.184	790.464	GPR-5077
2447294.253	310567.301	799.854	GPR-5080
2447299.19	310283.121	793.312	GPR-5081
2447293.287	310644.977	804.695	GPR-5082
2447296.358	310563.732	799.615	GPR-5086
2447305.087	310115.785	789.989	GPR-5096
2447296.233	310649.649	804.956	GPR-5097
2447297.889	310560.808	799.367	GPR-5098
2446560.555	310307.063	790.872	GPR-510
2447303.218	310288.685	792.999	GPR-5100
2447308.067	310100.581	789.741	GPR-5102
2447300.682	310555.066	799.177	GPR-5104
2447299.528	310654.692	805.136	GPR-5111
2447305.269	310332.881	798.177	GPR-5112
2447309.593	310090.813	789.553	GPR-5114
2447302.588	310550.948	798.832	GPR-5120
2447310.74	310086.063	789.587	GPR-5124
2447310.802	310085.845	789.622	GPR-5128
2446563.884	310315.456	787.368	GPR-513
2447307.648	310295.021	792.477	GPR-5133
2447304.513	310547.485	798.567	GPR-5139
2447312.166	310091.22	788.118	GPR-5140
2447303.048	310660.503	805.39	GPR-5141
2447313.521	310082.832	789.283	GPR-5143
2447306.457	310544.677	798.319	GPR-5147
2447305.835	310667.575	805.578	GPR-5148
2446563.944	310315.42	787.314	GPR-515
2447309.274	310541.084	797.864	GPR-5151
2447313.424	310302.398	792.407	GPR-5152
2447307.691	310675.397	805.905	GPR-5154
2447308.807	310681.387	806.352	GPR-5157
2447314.823	310328.78	797.506	GPR-5158
2447309.454	310687.004	806.55	GPR-5160
2447311.961	310538.179	797.428	GPR-5161
2447309.081	310718.307	807.267	GPR-5162
2447309.314	310716.819	806.934	GPR-5167
2447309.29	310718.238	807.253	GPR-5168
2447309.798	310691.306	806.762	GPR-5169
2446563.974	310315.384	787.305	GPR-517
2447309.386	310717.803	806.968	GPR-5170
2447309.665	310711.764	806.729	GPR-5173
2447309.952	310706.963	806.603	GPR-5176
2447310.176	310697.064	806.743	GPR-5178
2447310.124	310701.978	806.648	GPR-5180
2447318.474	310308.89	792.184	GPR-5182
2447315.78	310534.893	797.151	GPR-5183
2447322.464	310325.594	796.953	GPR-5185
2447319.174	310532.219	796.928	GPR-5186

2446564.004	310315.348	787.27	GPR-519
2447325.159	310316.865	792.516	GPR-5191
2447326.11	310323.871	796.706	GPR-5197
2447323.36	310528.284	796.567	GPR-5198
2447327.991	310323.029	796.675	GPR-5200
2447328.409	310321.106	796.639	GPR-5205
2447328.409	310321.106	796.639	GPR-5206
2447328.409	310321.106	796.639	GPR-5207
2447328.46	310321.58	796.484	GPR-5209
2446564.034	310315.349	787.261	GPR-521
2447326.734	310525.028	796.647	GPR-5212
2447330.966	310324.17	793.773	GPR-5213
2447329.176	310522.556	796.903	GPR-5214
2447331.552	310520.521	797.44	GPR-5217
2446564.055	310315.823	787.977	GPR-522
2447334.187	310518.963	798.826	GPR-5224
2447337.532	310332.216	794.591	GPR-5225
2447336.889	310516.896	798.819	GPR-5229
2447339.653	310514.685	798.753	GPR-5231
2447344.571	310342.09	794.759	GPR-5232
2447344.218	310511.084	798.644	GPR-5236
2447351.09	310351.118	794.496	GPR-5238
2446564.093	310315.35	787.274	GPR-524
2447350.107	310506.376	798.503	GPR-5240
2447354.125	310503.603	798.354	GPR-5242
2447357.065	310359.045	794.078	GPR-5243
2447358.491	310501.346	798.153	GPR-5246
2447361.449	310499.902	798.054	GPR-5248
2447364.133	310370.704	794.535	GPR-5249
2446564.093	310315.35	787.295	GPR-525
2447367.799	310378.41	794.602	GPR-5252
2447367.69	310497.203	797.894	GPR-5254
2447370.539	310384.79	794.742	GPR-5256
2447373.114	310495.436	797.691	GPR-5266
2447375.554	310393.393	795.363	GPR-5267
2447380.278	310232.446	789.213	GPR-5271
2447380.52	310230.338	791.632	GPR-5274
2447380.588	310229.829	791.279	GPR-5276
2446564.092	310315.423	787.392	GPR-528
2447380.88	310228.342	790.897	GPR-5282
2447380.907	310230.235	792.34	GPR-5287
2447380.907	310230.235	791.594	GPR-5288
2446564.4	310298.681	788.652	GPR-529
2447380.906	310230.344	792.231	GPR-5290
2447380.941	310230.017	792.452	GPR-5296
2446564.12	310315.532	787.538	GPR-530
2447381.004	310229.764	792.631	GPR-5301
2447379.625	310387.454	794.927	GPR-5317
2447379.662	310387.017	794.265	GPR-5318
2446564.115	310315.824	787.931	GPR-532
2447382.534	310230.444	788.907	GPR-5321
2447379.951	310387.423	795.925	GPR-5322
2447382.883	310230.887	788.494	GPR-5325
2447380.643	310401.05	796.56	GPR-5330
2447380.022	310493.622	797.601	GPR-5335
2447384.966	310232.196	789.691	GPR-5340
2447383.089	310384.126	793.203	GPR-5346
2447385.416	310383.254	792.623	GPR-5354
2447384.978	310409.532	796.409	GPR-5355
2447388.728	310417.568	795.588	GPR-5359
2447388.426	310490.922	797.689	GPR-5362
2447390.465	310382.646	793.794	GPR-5363
2447390.043	310422.25	795.447	GPR-5364
2446561.034	310651.077	791.269	GPR-537
2447393.198	310433.952	795.783	GPR-5370
2447395.176	310379.23	793.9	GPR-5372
2447397.805	310239.108	788.984	GPR-5373
2447394.644	310439.692	796.045	GPR-5374
2447395.221	310488.705	797.699	GPR-5378
2447399.363	310241.683	790.388	GPR-5379
2447399.477	310240.156	788.911	GPR-5380
2447399.544	310241.467	790.683	GPR-5381
2447400.109	310239.584	789.351	GPR-5389
2447400.25	310240.023	789.495	GPR-5397
2447400.279	310240.023	789.776	GPR-5401
2447397.659	310447.351	796.452	GPR-5404
2447401.549	310242.12	790.955	GPR-5406
2447399.433	310486.773	797.865	GPR-5408
2447403.514	310243.39	791.473	GPR-5409
2446566.915	310314.996	788.305	GPR-541
2447401.907	310373.772	793.668	GPR-5411
2447400.705	310456.686	796.446	GPR-5412
2447405.737	310243.391	791.531	GPR-5415
2447406.738	310242.024	791.618	GPR-5418
2447403.208	310464.773	796.448	GPR-5419
2447403.093	310484.14	798.078	GPR-5421
2447407.892	310242.152	791.283	GPR-5423
2447405.612	310471.767	796.353	GPR-5424
2447407.511	310366.547	793.351	GPR-5426
2447406.32	310482.664	798.188	GPR-5431
2447411.568	310242.141	790.914	GPR-5434
2447408.141	310478.326	796.063	GPR-5435
2447410.399	310485.099	796.186	GPR-5444
2447410.568	310482.08	798.152	GPR-5445
2447412.755	310361.392	792.718	GPR-5446
2446561.519	310643.33	792.746	GPR-545
2447412.204	310481.779	798.236	GPR-5453
2447412.203	310481.816	798.283	GPR-5454
2447412.203	310481.816	798.228	GPR-5455
2447413.25	310493.702	796.298	GPR-5462
2447418.023	310356.528	792.563	GPR-5470
2447416.04	310500.593	796.509	GPR-5471

```
2447420.826 310246.955  790.857 GPR-5472
2447423.136 310248.85   791.227 GPR-5479
2447419.382 310508.221  796.736 GPR-5483
2447422.801 310352.64   792.445 GPR-5485
2447425.515 310250.164  791.485 GPR-5487
2447422.347 310515.297  796.826 GPR-5489
2447427.681 310251.838  791.491 GPR-5491
2447425.255 310524.01   796.188 GPR-5493
2447428.214 310348.033  792.107 GPR-5494
2447430.284 310253.92   791.377 GPR-5496
2447427.227 310530.195  795.54  GPR-5498
2446562.285 310622.191  795.228 GPR-550
2447432.445 310344.973  792.042 GPR-5501
2447434.204 310257.08   791.475 GPR-5502
2447429.719 310539.011  794.513 GPR-5503
2447431.231 310546.099  794.468 GPR-5506
2447436.557 310258.212  791.696 GPR-5508
2446562.394 310617.423  794.41  GPR-551
2447432.656 310551.292  794.454 GPR-5510
2447436.562 310341.619  792.013 GPR-5512
2447433.109 310552.574  794.605 GPR-5513
2447433.17  310552.466  794.525 GPR-5515
2447433.169 310552.539  794.599 GPR-5516
2447438.456 310259.881  791.783 GPR-5517
2447440.007 310261.072  791.578 GPR-5518
2446562.394 310617.423  794.405 GPR-552
2447440.274 310339.424  791.945 GPR-5520
2447442.147 310262.528  791.629 GPR-5521
2447440.03  310494.73   795.76  GPR-5524
2447440.089 310494.767  795.812 GPR-5526
2447443.938 310270.64   790.863 GPR-5528
2447444.157 310264.636  791.627 GPR-5530
2447444.876 310271.274  791.011 GPR-5533
2447441.726 310496.142  795.749 GPR-5535
2447445.812 310266.703  791.788 GPR-5536
2447446.729 310336.291  791.748 GPR-5539
2447447.837 310273.29   791.139 GPR-5540
2447446.426 310500.516  795.812 GPR-5544
2447450.093 310333.653  791.541 GPR-5545
2447452.082 310276.455  790.917 GPR-5549
2447464.977 309555.237  780.812 GPR-5554
2447464.876 309566.667  779.943 GPR-5555
2447450.209 310504.729  795.921 GPR-5559
2447455.216 310278.764  790.747 GPR-5564
2447466.779 309587.706  780.863 GPR-5565
2447454.423 310329.975  791.544 GPR-5566
2447466.801 309595.278  779.914 GPR-5567
2447467.172 309578.356  780.859 GPR-5568
2446561.746 310658.188  790.029 GPR-557
2447468.029 309601.634  779.946 GPR-5573
2447469.265 309547.008  771.738 GPR-5577
2447469.532 309539.84   773.516 GPR-5580
2447468.675 309605.576  779.915 GPR-5583
2447454.059 310508.507  795.809 GPR-5584
2447457.906 310280.993  790.692 GPR-5586
2447469.732 309613.312  777.965 GPR-5587
2446562.455 310617.315  794.999 GPR-559
2447458.242 310326.726  791.729 GPR-5590
2447470.622 309615.074  776.265 GPR-5593
2447471.184 309613.373  774.932 GPR-5598
2446525.992 309998.344  777.638 GPR-56
2447472.766 309534.324  774.904 GPR-5605
2447471.718 309613.309  773.949 GPR-5609
2446562.586 310618.337  795.345 GPR-561
2447461.444 310291.028  790.174 GPR-5618
2446562.75  310617.393  794.404 GPR-562
2447472.781 309620.681  774.591 GPR-5620
2447461.947 310292.893  789.997 GPR-5622
2447462.456 310283.69   790.496 GPR-5625
2447473.598 309625.027  774.069 GPR-5627
2447458.931 310513.248  795.892 GPR-5628
2447475.588 309530.403  776.346 GPR-5630
2447462.898 310296.294  789.695 GPR-5631
2447474.32  309631.555  775.177 GPR-5632
2447462.994 310322.618  791.74  GPR-5633
2447476.926 309528.423  777.734 GPR-5639
2447475.231 309656.946  781.543 GPR-5641
2447477.958 309526.947  779.051 GPR-5643
2447476.254 309636.466  775.012 GPR-5644
2447465.388 310301.651  789.576 GPR-5646
2447476.34  309650.848  775.135 GPR-5648
2447478.867 309525.761  780.315 GPR-5650
2447477.515 309642.603  774.269 GPR-5654
2447466.851 310284.965  790.459 GPR-5655
2447466.456 310319.399  791.678 GPR-5658
2446559.95  310787.729  792.353 GPR-566
2447477.416 309664.591  780.5   GPR-5660
2447477.964 309645.887  774.621 GPR-5664
2447480.081 309524.07   780.703 GPR-5666
2447463.602 310517.549  795.923 GPR-5667
2447480.584 309524.151  778.972 GPR-5671
2447467.771 310306.315  789.6   GPR-5674
2447480.82  309524.191  778 GPR-5675
2447480.968 309524.23   777.504 GPR-5677
2447478.486 309676.878  783.122 GPR-5678
2447468.72  310284.887  790.427 GPR-5680
2447479.176 309671.064  782.21  GPR-5682
2447479.701 309682.25   784.175 GPR-5688
2447469.919 310316.18   791.615 GPR-5689
2447470.381 310311.528  789.857 GPR-5691
2447471.302 310284.748  790.381 GPR-5693
2447481.43  309685.228  784.417 GPR-5695
```

```
2447471.483 310314.823  791.609 GPR-5697
2447471.484 310316.497  790.132 GPR-5699
2447472.303 310322.518  790.381 GPR-5701
2447472.992 310327.408  790.518 GPR-5702
2447474.121 310284.576  790.331 GPR-5703
2447470.618 310521.67   795.977 GPR-5704
2447474.085 310333.033  790.577 GPR-5706
2447475.711 310340.414  790.575 GPR-5708
2447476.82  310284.439  790.284 GPR-5709
2447476.732 310344.945  790.551 GPR-5710
2447477.419 310348.197  790.449 GPR-5714
2447477.968 310350.827  790.496 GPR-5718
2447475.122 310523.566  796.503 GPR-5719
2446560.01  310787.657  792.49  GPR-572
2447480.312 310283.041  790.266 GPR-5725
2447480.906 310361.325  790.584 GPR-5732
2447479.317 310526.184  796.142 GPR-5736
2447484.512 310278.233  790.099 GPR-5738
2447483.164 310368.134  790.669 GPR-5740
2447483.923 310370.623  790.744 GPR-5742
2447486.213 310377.287  790.8   GPR-5745
2447488.634 310274.588  789.727 GPR-5747
2447485.613 310529.056  795.329 GPR-5748
2446560.067 310787.767  791.92  GPR-575
2447489.205 310386.292  791.003 GPR-5750
2447493.529 310269.026  790.179 GPR-5753
2447489.478 310530.176  794.898 GPR-5754
2447493.218 310394.514  791.231 GPR-5757
2446558.852 310860.924  792.783 GPR-576
2447498.831 310263.908  789.635 GPR-5761
2447497.466 310399.318  791.407 GPR-5762
2447495.747 310531.117  793.772 GPR-5765
2446558.852 310860.924  792.766 GPR-577
2447502.435 310259.345  788.434 GPR-5771
2447502.435 310259.345  788.434 GPR-5772
2447502.435 310259.345  788.434 GPR-5773
2447502.435 310259.345  788.434 GPR-5774
2447502.435 310259.345  788.434 GPR-5775
2447501.94  310401.249  791.08  GPR-5787
2447516.192 309687.627  783.377 GPR-5788
2447516.28  309687.665  783.65  GPR-5789
2447503.086 310531.822  793.267 GPR-5791
2447517.172 309687.497  783.896 GPR-5792
2447506.06  310401.281  791.003 GPR-5793
2447521.376 309516.93   779.229 GPR-5796
2447521.529 309516.605  778.905 GPR-5798
2447521.584 309516.861  779.523 GPR-5800
2447519.535 309688.046  783.492 GPR-5801
2447524.028 309514.316  779.948 GPR-5805
2447510.959 310400.78   790.911 GPR-5809
2447523.253 309689.091  782.416 GPR-5812
2447526.762 309510.357  780.2   GPR-5813
2447524.133 309689.616  782.089 GPR-5815
2447524.949 309690.467  781.769 GPR-5817
2447511.573 310533.056  792.214 GPR-5820
2447515.515 310399.546  791.007 GPR-5821
2447530.401 309507.214  779.91  GPR-5822
2447533.75  309505.486  779.479 GPR-5827
2447519.562 310398.63   790.768 GPR-5829
2446558.882 310860.924  792.737 GPR-583
2447519.888 310533.959  791.503 GPR-5831
2447538.803 309504.696  778.754 GPR-5833
2447525.715 310399.424  790.395 GPR-5836
2447524.656 310534.256  791.431 GPR-5838
2446568.189 310304.35   791.324 GPR-584
2447543.301 309503.351  778.96  GPR-5842
2447540.495 309698.626  781.165 GPR-5845
2447532.341 310402.01   790.468 GPR-5850
2447544.328 309696.323  780.817 GPR-5854
2447547.954 309501.681  779.583 GPR-5855
2447531.467 310534.625  791.138 GPR-5858
2447548.436 309693.479  780.768 GPR-5868
2447537.507 310403.334  789.758 GPR-5870
2447553.45  309500.935  779.979 GPR-5873
2447537.307 310534.613  791.071 GPR-5877
2447540.615 310403.568  789.22  GPR-5880
2447553.428 309687.446  780.473 GPR-5881
2447558.652 309498.292  780.135 GPR-5882
2447557.434 309681.833  779.92  GPR-5885
2447545.008 310437.062  792.387 GPR-5886
2447560.339 309582.164  778.082 GPR-5888
2447560.328 309582.783  777.932 GPR-5889
2447560.267 309586.495  777.908 GPR-5890
2447560.43  309582.056  778.09  GPR-5891
2447560.542 309591.305  777.434 GPR-5894
2447560.822 309590.509  777.851 GPR-5899
2446562.148 310687.538  794.039 GPR-590
2447560.784 309594.622  777.183 GPR-5900
2447545.434 310534.347  791.34  GPR-5908
2447561.25  309600.455  777.351 GPR-5909
2447547.861 310404.599  787.192 GPR-5910
2447561.249 309607.591  777.161 GPR-5912
2447547.622 310431.39   791.98  GPR-5913
2447561.321 309613.963  777.14  GPR-5914
2447564.377 309496.275  780.309 GPR-5915
2447561.474 309676.002  778.012 GPR-5916
2447563.079 309616.978  776.105 GPR-5918
#2447549.054    310471.825  796.944 GPR-5920    Removed anaomalous elevations
#2447549.054    310471.825  796.944 GPR-5921    Removed anaomalous elevations
#2447549.054    310471.825  796.944 GPR-5922    Removed anaomalous elevations
#2447549.054    310471.825  796.944 GPR-5923    Removed anaomalous elevations
#2447549.054    310471.825  796.944 GPR-5924    Removed anaomalous elevations
```

```
#2447549.054    310471.825  796.944 GPR-5925    Removed anaomalous elevations
2447563.669 309620.737  775.192 GPR-5936
2447549.209 310533.719  791.437 GPR-5937
2447564.37  309624.936  774.842 GPR-5938
2446562.18  310687.393  794.2   GPR-594
2447551.868 310422.104  792.014 GPR-5941
2447565.495 309628.559  774.62  GPR-5943
2447564.853 309670.707  776.548 GPR-5945
#2447551.544    310470.046  796.938 GPR-5946    Removed anaomalous elevations
2447553.732 310406.298  785.639 GPR-5953
2447569.762 309496.911  779.956 GPR-5958
2447567.077 309665.283  776.96  GPR-5959
2447553.574 310533.282  791.127 GPR-5964
2447568.349 309661.918  777.592 GPR-5965
2447556.241 310414.058  791.571 GPR-5968
2446562.265 310687.649  793.973 GPR-597
2447572.303 309497.427  779.563 GPR-5973
2447569.696 309657.572  777.955 GPR-5974
2447569.967 309653.754  777.975 GPR-5975
2447570.273 309651.392  777.941 GPR-5978
2447570.872 309636.767  777.683 GPR-5983
2447570.71  309648.269  777.98  GPR-5985
2447557.049 310468.791  793.45  GPR-5986
2447571.613 309640.347  777.874 GPR-5991
2447571.617 309643.66   777.89  GPR-5992
2447558.995 310407.078  785.328 GPR-5993
2447573.829 309639.037  784.295 GPR-5996
2447573.86  309638.928  784.263 GPR-5999
2446519.296 310087.356  789.099 GPR-6
2446527.104 309965.269  777.472 GPR-60
2447573.891 309638.856  784.256 GPR-6000
2447559.086 310533.337  791.068 GPR-6002
2447574.266 309639.445  784.385 GPR-6004
2447577.902 309497.629  779.266 GPR-6006
2447576.253 309641.189  784.587 GPR-6011
2447563.813 310400.823  790.634 GPR-6012
2447564.161 310406.617  785.663 GPR-6014
2447563.758 310466.427  792.665 GPR-6017
2447577.847 309643.4    784.576 GPR-6018
2447565.161 310405.287  786.42  GPR-6019
2446562.99  310658.245  790.469 GPR-602
2447563.242 310533.006  790.865 GPR-6021
2447579.032 309646.988  784.415 GPR-6025
2447579.826 309649.149  784.559 GPR-6026
2447567.831 310390.951  789.414 GPR-6030
2447567.981 310389.06   789.264 GPR-6031
2447567.981 310389.06   789.264 GPR-6032
2447567.981 310389.06   789.264 GPR-6033
2447567.981 310389.06   789.264 GPR-6034
2447567.981 310389.06   789.264 GPR-6035
2447567.981 310389.06   789.264 GPR-6036
2447567.981 310389.06   789.264 GPR-6037
2447567.981 310389.06   789.264 GPR-6038
2447567.981 310389.06   789.264 GPR-6039
2446560.92  310790.002  792.008 GPR-605
2447566.83  310465.276  792.402 GPR-6053
2447580.925 309650.805  784.794 GPR-6054
2447584.222 309497.297  779.918 GPR-6055
2447567.402 310532.42   790.801 GPR-6056
2447584.382 309653.266  784.584 GPR-6059
2447570.376 310531.814  790.866 GPR-6060
2447572.109 310463.362  791.949 GPR-6062
2447590.209 309495.613  779.963 GPR-6063
2447573.885 310531.181  790.861 GPR-6064
2447589.557 309659.359  784.412 GPR-6066
2447577.328 310461.447  791.504 GPR-6068
2447576.955 310530.176  790.502 GPR-6069
2447597.194 309496.239  779.605 GPR-6074
2447594.49  309665.776  785.285 GPR-6075
2447581.864 310529.056  790.152 GPR-6079
2447583.113 310459.431  791.174 GPR-6080
2447600.338 309674.174  783.268 GPR-6086
2447588.302 310457.552  791.825 GPR-6087
2447588.855 310527.607  789.76  GPR-6090
2447606.371 309514.814  779.349 GPR-6091
2447606.398 309514.996  780.173 GPR-6094
2447592.337 310455.544  791.929 GPR-6099
2446560.669 310812.206  791.883 GPR-610
2447610.554 309519.944  780.642 GPR-6103
2447610.262 309573.093  781.316 GPR-6104
2447608.547 309683.194  783.114 GPR-6106
2447595.753 310453.343  791.886 GPR-6107
2447612.083 309501.111  779.977 GPR-6109
2447611.53  309573.514  781.24  GPR-6115
2447613.762 309501.794  780.345 GPR-6117
2447610.878 309690.987  784.13  GPR-6118
2447610.815 309701.908  785.894 GPR-6119
2447597.31  310525.418  789.54  GPR-6120
2447611.005 309706.535  786.253 GPR-6121
2447611.312 309697.001  785.037 GPR-6123
2447614.401 309523.94   781.505 GPR-6125
2447599.702 310451.188  791.681 GPR-6128
2446559.925 310860.541  792.853 GPR-613
2447612.67  309711.55   786.925 GPR-6130
2447600.841 310450.406  791.804 GPR-6132
2447606.713 310113.78   788.812 GPR-6135
2447613.459 309714.039  787.212 GPR-6136
2447606.83  310113.891  788.849 GPR-6137
2447607.773 310114.234  788.868 GPR-6141
2447614.646 309721.049  787.442 GPR-6144
2447614.567 309738.268  787.049 GPR-6147
2447615.178 309730.05   787.107 GPR-6150
```

```
2447618.812 309527.836  781.992 GPR-6151
2447618.941 309575.312  780.655 GPR-6154
2447616.339 309749.365  787.397 GPR-6156
2447616.406 309748.893  787.51  GPR-6159
2447616.399 309749.33   787.395 GPR-6160
2447610.63  310115.338  788.955 GPR-6163
2447612.014 310115.871  788.997 GPR-6164
2447605.808 310522.428  789.605 GPR-6166
2447623.197 309501.296  781.293 GPR-6168
2447607.786 310446.372  791.705 GPR-6169
2447614.93  310117.011  789.086 GPR-6175
2447609.898 310449.465  791.761 GPR-6177
2447610.17  310450.962  791.599 GPR-6181
2447610.216 310451.764  791.469 GPR-6183
2447610.312 310451.329  791.517 GPR-6189
2446561.074 310802.128  792.035 GPR-619
2447610.31  310451.438  791.494 GPR-6192
2447610.307 310451.62   791.452 GPR-6195
2447610.45  310451.913  791.636 GPR-6199
2446523.834 310171.057  787.255 GPR-62
2447610.818 310452.939  791.617 GPR-6203
2447626.123 309574.813  781.194 GPR-6206
2447611.74  310454.593  791.523 GPR-6207
2447610.917 310520.038  789.932 GPR-6209
2447628.398 309532.546  782.116 GPR-6213
2447619.202 310118.575  789.3   GPR-6215
2447614.337 310458.823  791.207 GPR-6217
2447630.375 309501.051  781.122 GPR-6218
2446562.534 310724.97   792.458 GPR-622
2447616.887 310462.324  791.231 GPR-6228
2447616.302 310517.033  790.612 GPR-6230
2447632.084 309572.837  781.016 GPR-6231
2447632.861 309535.133  782.353 GPR-6233
2447623.154 310119.806  789.363 GPR-6234
2447634.413 309571.856  781.181 GPR-6241
2447634.413 309571.856  781.189 GPR-6242
2447634.502 309571.858  781.13  GPR-6245
2447626.833 310100.062  787.342 GPR-6250
2447626.981 310100.028  787.118 GPR-6251
2447620.892 310467.487  791.449 GPR-6252
2447627.431 310121.079  789.29  GPR-6256
2447627.978 310100.7    786.925 GPR-6257
2447621.16  310513.728  790.838 GPR-6258
2447638.641 309501.298  780.779 GPR-6259
2447638.637 309535.375  782.488 GPR-6262
2447629.79  310102.259  786.985 GPR-6264
2447624.998 310471.924  791.373 GPR-6268
2447641.075 309536.762  782.658 GPR-6270
2447641.723 309538.775  782.742 GPR-6274
2447641.795 309538.012  782.697 GPR-6275
2447632.444 310122.691  789.478 GPR-6278
2447633.26  310103.955  787.177 GPR-6279
2446562.589 310725.226  793.02  GPR-628
2447633.582 310104.179  787.151 GPR-6283
2447626.876 310508.69   790.955 GPR-6284
2447634.324 310104.155  787.001 GPR-6285
2447628.16  310476.055  791.179 GPR-6286
2447633.282 310173.856  788.028 GPR-6287
2447633.883 310173.32   788.044 GPR-6289
2446562.647 310725.3    791.6   GPR-629
2447645.612 309538.403  782.927 GPR-6294
2447630.229 310503.103  790.782 GPR-6298
2447647.428 309500.571  780.348 GPR-6299
2446565.626 310549.542  798.692 GPR-630
2447638.104 310124.569  789.902 GPR-6302
2447638.593 310105.864  787.116 GPR-6303
2447632.504 310482.207  791.159 GPR-6304
2447649.155 309500.126  780.261 GPR-6305
2447638.43  310174.452  788.149 GPR-6307
2447633.671 310497.553  790.859 GPR-6309
2447635.164 310493.355  790.795 GPR-6314
2447641.683 310107.227  787.205 GPR-6315
2447635.34  310488.152  790.95  GPR-6316
2447643.411 310126.296  790.17  GPR-6319
2447653.525 309538.571  783.49  GPR-6320
2447654.261 309515.72   778.306 GPR-6321
2447644.426 310108.11   787.072 GPR-6322
2447646.309 310108.906  786.986 GPR-6325
2447646.891 310127.41   790.249 GPR-6326
2447645.979 310192.817  787.945 GPR-6327
2447646.038 310192.855  787.913 GPR-6329
2446565.625 310549.615  798.74  GPR-633
2447646.979 310175.504  787.97  GPR-6331
2447649.224 310078.081  785.196 GPR-6332
2447649.518 310078.195  784.911 GPR-6333
2447649.787 310078.054  784.307 GPR-6335
2447658.786 309544.812  783.695 GPR-6336
2447649.413 310109.467  786.828 GPR-6338
2446566.809 310480.135  793.67  GPR-634
2447660.415 309516.405  779.091 GPR-6340
2447652.333 310072.963  785.265 GPR-6342
2447652.317 310081.009  783.587 GPR-6343
2447652.924 310071.298  784.442 GPR-6345
2447651.991 310129.06   790.258 GPR-6346
2447650.945 310193.701  787.961 GPR-6347
2447662.357 309552.917  783.139 GPR-6349
2446566.809 310480.135  793.649 GPR-635
2447663.153 309554.933  782.794 GPR-6351
2447654.376 310112.28   786.941 GPR-6353
2447653.335 310176.52   787.855 GPR-6354
2447655.379 310069.847  784.116 GPR-6355
2447655.581 310112.883  786.897 GPR-6356
```

```
2447656.617 310070.268  787.316 GPR-6357
2447656.646 310070.268  786.937 GPR-6358
2447657.188 310069.768  783.903 GPR-6361
2447657.247 310069.805  784.163 GPR-6362
2447667.431 309518.816  779.863 GPR-6364
2447658.317 310087.444  783.549 GPR-6366
2447658.505 310131.317  790.263 GPR-6367
2447660.834 310069.792  788.384 GPR-6368
2447660.16  310177.908  787.877 GPR-6369
2447661.495 310115.53   786.559 GPR-6371
2447660.607 310195.573  787.685 GPR-6372
2447664.637 310092.391  783.384 GPR-6374
2447674.915 309521.525  780.046 GPR-6376
2447665.253 310133.723  789.95  GPR-6378
2447668.09  310070.168  788.815 GPR-6380
2447666.718 310179.292  787.816 GPR-6381
2447668.033 310118.114  786.359 GPR-6382
2447671.706 310096.95   783.413 GPR-6384
2447681.572 309522.291  779.929 GPR-6385
2447670.412 310197.738  787.527 GPR-6386
2447673.308 310119.986  786.165 GPR-6389
2447673.127 310136.184  789.76  GPR-6390
2447684.783 309523.51   780.299 GPR-6393
2447675.079 310136.435  789.689 GPR-6395
2447676.586 310069.108  788.998 GPR-6397
2447675.138 310180.997  787.693 GPR-6398
2447677.481 310100.796  783.321 GPR-6399
2447688.24  309524.186  780.47  GPR-6401
2447678.187 310199.033  787.486 GPR-6404
2447679.593 310137.748  789.365 GPR-6406
2447689.979 309524.798  780.332 GPR-6407
2447681.086 310122.846  786.142 GPR-6408
2447681.075 310182.261  787.758 GPR-6410
2447683.662 310067.878  788.891 GPR-6411
2447692.928 309525.757  780.033 GPR-6412
2447694.459 309526.365  779.854 GPR-6415
2447685.469 310105.335  783.188 GPR-6418
2447695.335 309527.181  779.799 GPR-6419
2447685.089 310199.33   787.358 GPR-6422
2447697.114 309530.705  780.487 GPR-6425
2447687.01  310140.966  789.381 GPR-6426
2447687.838 310125.07   786.048 GPR-6428
2447688.225 310183.691  787.855 GPR-6431
2447690.919 310107.391  783.66  GPR-6433
2447700.603 309534.768  780.455 GPR-6434
2447690.727 310142.047  789.438 GPR-6435
2447692.466 310067.843  788.845 GPR-6436
2447692.034 310200.574  787.378 GPR-6439
2447693.468 310142.966  789.434 GPR-6440
2447694.205 310127.178  786.172 GPR-6442
2447704.527 309535.926  780.34  GPR-6444
2447695.179 310109.647  783.387 GPR-6445
2447705.521 309536.743  780.615 GPR-6448
2447705.671 309536.637  780.726 GPR-6449
2447696.034 310143.737  789.384 GPR-6451
2447696.471 310201.194  787.377 GPR-6453
2447697.677 310185.741  787.912 GPR-6454
2447698.833 310128.784  786.174 GPR-6455
2447699.164 310144.518  789.304 GPR-6456
2447700.729 310112.797  783.343 GPR-6457
2447704.095 310069.129  788.865 GPR-6458
2447702.911 310145.563  789.394 GPR-6459
2447705.151 310187.249  788.136 GPR-6460
2447704.964 310202.064  787.026 GPR-6461
2447706.192 310146.127  789.28  GPR-6462
2447706.825 310131.248  786.139 GPR-6463
2447707.386 310117.131  783.225 GPR-6464
2447709.35  310146.944  789.139 GPR-6465
2447712.078 310120.231  783.3   GPR-6466
2447711.143 310203.04   786.946 GPR-6467
2447711.776 310188.197  788.218 GPR-6468
2447712.805 310147.73   788.972 GPR-6469
2446569.965 310297.353  788.546 GPR-647
2447714.309 310069.918  788.584 GPR-6470
2447713.353 310132.631  786.092 GPR-6471
2447717.028 310148.711  788.887 GPR-6473
2447717.34  310133.534  786.077 GPR-6474
2447717.494 310204.384  786.994 GPR-6475
2447719.684 310149.41   788.881 GPR-6476
2447720.178 310125.135  783.358 GPR-6477
2447720.617 310189.509  788.361 GPR-6478
2447722.898 310070.389  788.231 GPR-6479
2447722.931 310150.265  788.858 GPR-6481
2447723.197 310205.462  787.027 GPR-6482
2447725.817 310135.387  785.96  GPR-6483
2447727.847 310129.195  783.295 GPR-6485
2447727.007 310190.308  788.408 GPR-6486
2447728.199 310129.419  783.286 GPR-6487
2447729.691 310151.98   788.633 GPR-6488
2447730.086 310206.523  786.964 GPR-6489
2447732.996 310070.994  787.868 GPR-6490
2447733.852 310137.05   785.698 GPR-6492
2447736.231 310070.756  787.849 GPR-6493
2447735.077 310191.68   788.367 GPR-6494
2447736.411 310154.276  788.61  GPR-6495
2447736.177 310207.462  787.008 GPR-6496
2447739.291 310070.334  787.849 GPR-6498
2447740.276 310192.749  788.341 GPR-6499
2447741.347 310139.104  785.633 GPR-6500
2447741.867 310155.932  788.565 GPR-6501
2447741.641 310208.718  787.051 GPR-6503
2447744.124 310070.305  787.612 GPR-6504
```

2447744.727	310156.89	788.62	GPR-6508
2447747.566	310070.108	787.497	GPR-6511
2447745.688	310193.495	788.351	GPR-6512
2447747.446	310112.884	783.7	GPR-6514
2447748.066	310111.256	783.49	GPR-6517
2447748.421	310111.298	783.475	GPR-6518
2447749.53	310140.806	785.441	GPR-6520
2447748.936	310210.332	786.894	GPR-6521
2447750.926	310158.45	788.692	GPR-6522
2447751.483	310194.429	788.383	GPR-6523
2447752.947	310117.235	783.971	GPR-6524
2447753.759	310070.247	787.719	GPR-6525
2447753.811	310111.643	783.482	GPR-6526
2447755.374	310211.787	786.903	GPR-6528
2447758.271	310069.886	787.944	GPR-6529
2447756.948	310159.97	788.653	GPR-6530
2447758.161	310195.741	788.303	GPR-6532
2447759.258	310142.315	785.341	GPR-6533
2447760.88	310069.82	788.193	GPR-6534
2447760.028	310122.777	783.981	GPR-6535
2447760.715	310110.01	783.293	GPR-6537
2447763.109	310069.529	788.339	GPR-6539
2446561.582	310816.153	792.423	GPR-654
2447761.904	310161.399	788.655	GPR-6540
2447763.612	310069.574	788.627	GPR-6541
2447763.67	310069.648	788.958	GPR-6542
2447763.669	310069.684	789.142	GPR-6543
2447762.107	310213.282	786.965	GPR-6544
2447765.051	310196.73	788.245	GPR-6546
2447767.184	310143.393	785.303	GPR-6547
2447768.371	310162.927	788.726	GPR-6550
2447770.539	310107.48	783.62	GPR-6551
2447769.205	310214.311	786.99	GPR-6552
2447772.147	310164.009	788.722	GPR-6553
2447772.797	310197.951	788.275	GPR-6555
2447774.08	310144.054	785.28	GPR-6556
2447775.601	310164.868	788.707	GPR-6558
2447775.829	310215.258	786.954	GPR-6560
2447779.388	310104.787	783.592	GPR-6561
2447780.032	310165.779	788.728	GPR-6562
2447780.813	310198.995	788.494	GPR-6564
2447781.746	310144.801	785.708	GPR-6565
2447782.449	310216.461	786.759	GPR-6566
2447784.32	310166.396	788.742	GPR-6568
2447783.831	310199.336	788.572	GPR-6569
2447787.883	310217.68	786.897	GPR-6571
2447789.441	310145.512	785.951	GPR-6572
2447789.083	310167.022	788.845	GPR-6573
2447790.287	310103.622	783.95	GPR-6574
2447790.99	310200.22	788.708	GPR-6577
2447792.538	310167.808	788.981	GPR-6578
2447793.881	310218.872	786.771	GPR-6579
2447795.398	310200.767	788.737	GPR-6582
2447795.092	310219.111	787.036	GPR-6583
2447795.153	310219.039	786.722	GPR-6585
2447795.18	310219.185	787.416	GPR-6587
2447795.236	310219.404	788.158	GPR-6589
2447795.268	310219.223	787.774	GPR-6591
2447795.328	310219.187	787.943	GPR-6592
2447795.357	310219.261	788.183	GPR-6594
2447795.384	310219.37	788.321	GPR-6597
2447798.018	310146.674	786.131	GPR-6598
2447797.059	310220.272	789.017	GPR-6599
2447797.09	310220.163	788.997	GPR-6600
2447797.439	310201.019	788.821	GPR-6601
2447798.44	310169.399	789.101	GPR-6602
2447797.555	310224.321	789.149	GPR-6603
2447797.487	310231.966	789.241	GPR-6604
2447797.587	310241.979	789.043	GPR-6605
2447800.202	310102.768	784.015	GPR-6606
2447797.866	310250.102	789.372	GPR-6607
2447799.185	310201.23	788.893	GPR-6608
2447798.452	310257.685	789.598	GPR-6609
2446567.521	310480.11	793.717	GPR-661
2447799.717	310201.312	788.985	GPR-6610
2447799.717	310201.312	789.073	GPR-6611
2447798.681	310263.514	789.779	GPR-6612
2447798.699	310271.305	790.102	GPR-6613
2447798.675	310278.076	790.21	GPR-6614
2447798.658	310284.447	789.643	GPR-6615
2447798.526	310322.635	789.876	GPR-6616
2447798.569	310321.835	790.014	GPR-6617
2447798.556	310322.599	789.902	GPR-6618
2447798.556	310322.599	789.885	GPR-6619
2447798.555	310322.636	789.911	GPR-6620
2447798.585	310322.636	789.912	GPR-6621
2447801.336	310169.957	789.222	GPR-6622
2447799.302	310292.03	790.119	GPR-6623
2447799.205	310299.674	790.554	GPR-6624
2447801.749	310170.073	789.087	GPR-6625
2447801.808	310170.074	789.161	GPR-6627
2447799.493	310317.955	790.093	GPR-6628
2447799.911	310307.113	790.307	GPR-6629
2447800.116	310312.577	790.274	GPR-6630
2447807.698	310147.49	786.25	GPR-6632
2447809.612	310101.978	783.998	GPR-6633
2447810.919	310101.854	783.781	GPR-6636
2447810.954	310147.8	786.322	GPR-6638
2447811.576	310147.81	786.08	GPR-6639
2446567.966	310480.081	793.746	GPR-664
2447833.898	309743.887	781.969	GPR-6641
2447833.986	309743.888	781.664	GPR-6643

```
2447834.016 309743.889  781.497 GPR-6644
2447835.153 309741.505  781.912 GPR-6646
2447839.435 309733.567  781.721 GPR-6648
2447842.931 309726.562  781.351 GPR-6650
2447845.731 309720.456  781.475 GPR-6652
2447848.957 309713.629  781.729 GPR-6653
2447837.524 310460.392  794.817 GPR-6655
2447837.554 310460.356  794.819 GPR-6656
2447837.584 310460.32   794.807 GPR-6657
2447851.075 309709.296  781.763 GPR-6661
2447839.007 310458.56   794.914 GPR-6662
2447852.488 309706.334  781.822 GPR-6663
2447841.464 310455.215  794.895 GPR-6666
2447854.655 309702.547  781.74  GPR-6668
2447852.38  309935.22   780.671 GPR-6675
2447852.409 309935.257  780.464 GPR-6676
2447852.503 309934.967  781.048 GPR-6679
2446563.237 310784.361  792.509 GPR-668
2447852.497 309935.295  780.149 GPR-6680
2447856.761 309698.905  781.594 GPR-6681
2447852.997 309933.738  781.198 GPR-6682
2447854.015 309931.388  781.318 GPR-6684
2447845.44  310449.638  794.875 GPR-6685
2447848.233 310312.25   793.192 GPR-6686
2447848.232 310312.286  793.176 GPR-6688
2447848.231 310312.323  793.12  GPR-6689
2446563.265 310784.434  792.486 GPR-669
2447848.264 310312.141  793.222 GPR-6691
2447848.261 310312.323  793.083 GPR-6692
2447848.359 310311.815  793.288 GPR-6694
2447848.95  310310.15   793.466 GPR-6697
2447855.737 309927.667  781.566 GPR-6698
2447850.759 310306.54   793.728 GPR-6702
2447848.536 310445.285  794.783 GPR-6704
2447857.344 309923.725  781.849 GPR-6705
2447861.303 309691.408  781.264 GPR-6706
2447851.64  310305.208  793.785 GPR-6708
2447858.248 309921.083  782.573 GPR-6710
2447858.279 309920.974  782.283 GPR-6712
2447858.277 309921.083  782.386 GPR-6713
2447858.312 309920.756  782.679 GPR-6715
2447858.308 309921.011  782.203 GPR-6716
2447852.559 310303.439  794.007 GPR-6722
2447862.883 309689.141  781.358 GPR-6724
2447853.293 310302.068  794.169 GPR-6728
2447860.306 309920.316  782.954 GPR-6729
2447861.355 309919.606  783.087 GPR-6732
2447861.686 309919.32   783.13  GPR-6733
2447853.137 310439.573  794.623 GPR-6734
2447855.586 310297.919  794.515 GPR-6735
2447866.281 309684.465  781.647 GPR-6736
2447856.751 310295.609  794.714 GPR-6739
2446568.618 310480.092  793.788 GPR-674
2447864.29  309912.482  783.535 GPR-6741
2447858.72  310291.309  794.896 GPR-6745
2447856.331 310434.675  794.707 GPR-6746
2447869.098 309680.798  781.734 GPR-6747
2447859.49  310289.574  794.932 GPR-6749
2447866.443 309904.254  784.076 GPR-6750
2447857.818 310430.804  794.799 GPR-6751
2447861.14  310286.58   795.011 GPR-6753
2447859.62  310425.883  794.82  GPR-6755
2447873.089 309676.168  781.915 GPR-6757
2447863.191 310282.682  795.004 GPR-6759
2447861.845 310420.422  794.981 GPR-6761
2447870.725 309894.568  784.347 GPR-6762
2447876.08  309670.976  781.827 GPR-6765
2447866.242 310277.491  794.935 GPR-6766
2447865.612 310413.167  795.196 GPR-6768
2447874.424 309887.822  784.414 GPR-6769
2446561.704 310897.997  793.422 GPR-677
2447868.285 310274.102  794.899 GPR-6770
2447869.689 310271.65   794.882 GPR-6772
2447880.128 309664.672  781.922 GPR-6773
2447867.748 310407.742  795.398 GPR-6774
2447878.04  309880.746  784.235 GPR-6777
2447869.743 310401.841  795.489 GPR-6779
2447872.687 310266.094  794.947 GPR-6782
2447879.759 309877.207  784.271 GPR-6783
2447871.234 310397.752  795.481 GPR-6784
2447884.228 309658.77   781.556 GPR-6787
2447881.719 309873.454  784.244 GPR-6789
2446561.734 310897.997  793.386 GPR-679
2447875.337 310260.058  795.08  GPR-6790
2447873.13  310392.504  795.465 GPR-6791
2447882.763 309871.287  784.196 GPR-6794
2447887.661 309653.766  781.386 GPR-6797
2447880.442 310110.184  794.653 GPR-6798
2446524.804 310135.832  786.475 GPR-68
2447878.061 310254.861  795.407 GPR-6810
2447880.502 310110.149  794.776 GPR-6811
2447875.962 310386.181  795.558 GPR-6812
2447884.65  309866.549  783.692 GPR-6813
2447881.258 310105.72   794.822 GPR-6815
2447880 310250.597  795.642 GPR-6819
2446567.27  310570.176  795.601 GPR-682
2447878.169 310381.848  795.684 GPR-6821
2447887.404 309861.389  783.571 GPR-6825
2447884.526 310087.462  793.847 GPR-6831
2447888.819 309858.281  783.445 GPR-6834
2447882.767 310244.672  795.927 GPR-6836
2446562.485 310859.929  793.169 GPR-684
```

2447881.299	310375.457	795.746	GPR-6842
2447883.662	310242.503	795.974	GPR-6843
2446564.182	310759.584	789.889	GPR-685
2447884.437	310240.513	795.968	GPR-6851
2447891.24	309853.516	783.127	GPR-6856
2447894.752	309644.528	781.179	GPR-6858
2446564.182	310759.584	789.897	GPR-686
2447888.027	310060.616	793.454	GPR-6860
2447888.311	310045.366	792.366	GPR-6862
2447883.813	310370.438	795.935	GPR-6880
2447889.55	310038.579	791.806	GPR-6882
2447886.442	310235.814	795.938	GPR-6883
2447893.596	309849.15	782.798	GPR-6888
2447885.313	310367.623	795.936	GPR-6889
2446567.702	310549.504	798.726	GPR-689
2447887.701	310233.177	795.929	GPR-6890
2447888.622	310231.299	795.932	GPR-6896
2447887.005	310363.902	795.914	GPR-6898
2447895.759	309845.618	782.572	GPR-6900
2447893.142	310020.508	790.894	GPR-6903
2447899.691	309638.093	781.069	GPR-6906
2447888.82	310359.927	795.815	GPR-6911
2447891.135	310226.354	795.986	GPR-6913
2447898.165	309841.799	782.523	GPR-6916
2447895.61	310009.372	790.191	GPR-6917
2447890.752	310356.064	795.72	GPR-6919
2447903.48	309633.096	781.181	GPR-6922
2447892.198	310352.921	795.728	GPR-6923
2447890.66	310475.476	795.69	GPR-6924
2447890.69	310475.44	795.858	GPR-6927
2447890.689	310475.476	795.339	GPR-6929
2447895.123	310218.301	796.102	GPR-6931
2447890.993	310475.081	795.171	GPR-6932
2447905.46	309629.889	781.149	GPR-6934
2447893.642	310349.85	795.752	GPR-6935
2447892.209	310473.244	794.856	GPR-6937
2446569.034	310480.062	793.814	GPR-694
2447897.149	310214.112	796.064	GPR-6942
2447900.947	309993.26	789.623	GPR-6943
2447895.452	310346.203	795.795	GPR-6944
2447893.415	310470.243	794.583	GPR-6945
2447898.901	310210.391	796.106	GPR-6947
2447894.805	310466.88	794.54	GPR-6948
2447908.968	309625.724	781.232	GPR-6952
2447897.354	310342.376	795.857	GPR-6953
2447895.694	310465.111	794.641	GPR-6954
2447901.272	310205.079	796.284	GPR-6958
2447899.124	310339.311	795.99	GPR-6959
2446567.594	310570.29	795.254	GPR-696
2447905.876	309982.093	789.167	GPR-6962
2447912.155	309621.299	781.171	GPR-6963
2447900.801	310336.535	795.952	GPR-6967
2447899.165	310461.383	795.031	GPR-6974
2446564.214	310784.377	792.67	GPR-698
2447904.322	310198.14	796.316	GPR-6980
2447915.144	309616.252	780.851	GPR-6983
2447906.214	310193.111	796.356	GPR-6985
2447904.263	310329.785	796.404	GPR-6987
2447910.349	309973.393	789.148	GPR-6988
2447907.019	310191.049	796.356	GPR-6990
2447902.879	310457.294	795.079	GPR-6991
2447907.85	310189.243	796.43	GPR-6992
2447917.731	309612.181	780.817	GPR-6995
2447914.677	309811.529	784.472	GPR-6996
2447904.03	310455.857	794.968	GPR-6998
2447906.85	310325.714	796.673	GPR-7001
2447909.381	310186.283	796.64	GPR-7002
2447913.731	309966.132	788.985	GPR-7005
2447905.843	310453.776	794.981	GPR-7007
2447920.403	309608.403	780.777	GPR-7008
2446566.073	310686.802	794.945	GPR-701
2447917.846	309804.592	785.331	GPR-7012
2447909.646	310319.826	796.896	GPR-7016
2447908.043	310449.808	794.923	GPR-7020
2447911.218	310268.155	795.299	GPR-7021
2447911.339	310266.228	795.041	GPR-7023
2447913.142	310177.608	797.193	GPR-7024
2447923.159	309604.881	780.907	GPR-7025
2447920.652	309799.833	785.588	GPR-7028
2447914.71	310174.212	797.634	GPR-7030
2447910.514	310445.626	795.017	GPR-7033
2447912.926	310311.544	797.38	GPR-7034
2447916.244	310171.106	797.831	GPR-7036
2447925.862	309601.031	780.935	GPR-7039
2446571.232	310378.088	789.766	GPR-704
2447915.078	310276.702	795.265	GPR-7041
2447912.375	310442.489	795.129	GPR-7042
2447924.058	309794.684	786.119	GPR-7046
2447921.688	309951.156	788.532	GPR-7047
2447918.493	310166.047	798.247	GPR-7048
2447914.118	310439.278	795.166	GPR-7050
2447918.896	310164.961	798.299	GPR-7051
2447928.654	309597.109	780.836	GPR-7053
2447919.27	310163.876	798.311	GPR-7054
2447917.188	310304.843	797.665	GPR-7060
2447917.584	310282.86	795.377	GPR-7061
2447918.589	310256.337	796.265	GPR-7064
2447930.018	309595.348	780.85	GPR-7067
2447926.987	309789.672	786.695	GPR-7070
2447916.27	310436.438	795.253	GPR-7071
2447916.844	310435.756	795.287	GPR-7073
2447931.502	309593.443	780.869	GPR-7077

```
2447920.414 310290.917  795.191 GPR-7079
2447920.446 310299.655  798.164 GPR-7081
2447926.767 309939.882  788.408 GPR-7083
2447921.513 310297.889  794.158 GPR-7089
2446571.262 310378.052  789.83  GPR-709
2447921.632 310297.855  794.059 GPR-7091
2447922.013 310298.116  794.532 GPR-7094
2446571.262 310378.052  789.819 GPR-710
2447934.504 309589.415  780.82  GPR-7102
2447922.737 310295.616  798.539 GPR-7103
2447922.838 310298.421  794.74  GPR-7105
2447922.916 310297.33   794.961 GPR-7108
2447923.874 310246.959  796.891 GPR-7111
2447932.26  309781.022  787.461 GPR-7115
2447924.764 310291.354  798.663 GPR-7119
2447927.238 310148.208  798.264 GPR-7121
2447925.2   310299.006  795.118 GPR-7123
2447923.338 310428.546  795.72  GPR-7128
2447928.436 310145.716  798.189 GPR-7129
2447937.868 309585.03   780.767 GPR-7130
2447926.801 310286.545  798.849 GPR-7137
2447932.954 309926.15   788.172 GPR-7138
2447935.98  309773.002  787.055 GPR-7139
2447929.917 310142.209  798.096 GPR-7142
2447927.854 310283.833  798.959 GPR-7144
2447928.443 310282.277  799.009 GPR-7147
2447931.31  310138.701  797.999 GPR-7150
2447935.31  309920  788.088 GPR-7152
2447930.286 310235.744  797.142 GPR-7154
2447941.653 309580.215  780.799 GPR-7157
2446570.933 310412.123  789.15  GPR-716
2447938.86  309767.443  786.721 GPR-7160
2447932.861 310134.576  797.667 GPR-7161
2447929.242 310421.108  796.06  GPR-7164
2447932.021 310300.613  795.527 GPR-7165
2447944.463 309575.274  780.863 GPR-7167
2447942.332 309760.074  786.298 GPR-7172
2447935.465 310227.347  797.21  GPR-7174
2447941.542 309903.539  787.875 GPR-7179
2447938.375 310122.071  797.801 GPR-7182
2447942.134 309901.802  787.855 GPR-7183
2447947.753 309569.94   780.983 GPR-7184
2447945.224 309753.751  785.772 GPR-7188
2446569.805 310480.039  793.863 GPR-719
2447939.447 310120.014  797.697 GPR-7190
2447934.61  310413.844  796.283 GPR-7191
2447940.706 310117.414  797.546 GPR-7196
2447938.493 310262.639  799.184 GPR-7197
2447939.508 310217.73   797.145 GPR-7198
2447950.637 309565.874  781.022 GPR-7201
2447945.476 309893.411  787.709 GPR-7204
2447948.142 309747.647  785.712 GPR-7206
2447942.251 310113.653  797.375 GPR-7207
2447946.961 309889.686  787.703 GPR-7213
2447941.181 310309.503  795.842 GPR-7216
2447945.011 310106.309  797.245 GPR-7218
2447940.023 310405.633  796.541 GPR-7219
2447951.201 309741.982  785.542 GPR-7220
2447954.878 309560.448  780.976 GPR-7223
2447943.809 310251.405  800.438 GPR-7227
2446571.022 310412.124  789.071 GPR-723
2447945.117 310204.936  797.138 GPR-7232
2447947.263 310101.067  797.319 GPR-7235
2447954.161 309736.862  785.415 GPR-7238
2447952.039 309878.484  787.685 GPR-7239
2447957.577 309556.816  780.941 GPR-7240
2447949.139 310096.985  797.328 GPR-7241
2447947.588 310243.422  800.42  GPR-7245
2447950.132 310094.307  797.274 GPR-7246
2447945.757 310397.756  796.472 GPR-7247
2447948.817 310240.822  800.382 GPR-7249
2446567.017 310658.53   791.517 GPR-725
2447955.104 309872.456  787.789 GPR-7250
2447961.524 309551.202  781.022 GPR-7255
2447952.84  310088.345  797.003 GPR-7257
2447951.852 310190.304  797.746 GPR-7261
2447953.793 310086.286  796.9   GPR-7263
2447951.327 310236.058  800.723 GPR-7264
2447960.216 309724.002  784.892 GPR-7266
2447949.141 310392.169  796.358 GPR-7267
2447955.359 310083.035  796.81  GPR-7269
2446569.369 310522.3    794.277 GPR-727
2447961.561 309719.729  784.637 GPR-7272
2447951.757 310324.096  795.485 GPR-7274
2447954.307 310229.809  800.884 GPR-7275
2447966.08  309544.652  780.927 GPR-7278
2447957.329 310078.663  796.62  GPR-7280
2447963.589 309715.466  784.572 GPR-7282
2447961.686 309861.68   787.502 GPR-7284
2447953.333 310384.302  796.911 GPR-7286
2447956.304 310225.583  801.018 GPR-7288
2447954.813 310331.064  795.244 GPR-7289
2447954.844 310330.955  795.64  GPR-7291
2447954.874 310330.956  795.627 GPR-7294
2447954.904 310330.956  795.66  GPR-7296
2447959.217 310073.925  796.217 GPR-7299
2446569.368 310522.372  794.127 GPR-730
2447954.993 310330.958  795.483 GPR-7302
2447968.422 309541.087  780.721 GPR-7306
2447957.948 310176.753  798.238 GPR-7308
2447965.859 309710.88   784.475 GPR-7309
2447961.224 310069.08   795.737 GPR-7315
```

```
2447970.089 309538.894  780.647 GPR-7316
2447957.437 310328.377  796.028 GPR-7321
2447959.791 310219.088  801.218 GPR-7323
2447968.464 309705.791  784.32  GPR-7325
2447962.716 310064.955  795.282 GPR-7326
2447967.025 309852.631  787.514 GPR-7328
2447972.774 309536.062  780.698 GPR-7330
2447964.353 310060.977  794.907 GPR-7332
2447961.818 310214.862  801.473 GPR-7333
2447963.26  310163.953  798.262 GPR-7339
2447965.369 310058.701  794.782 GPR-7340
2447960.18  310375.424  797.683 GPR-7342
2447974.522 309534.38   780.791 GPR-7343
2447961.44  310324.731  796.483 GPR-7344
2447963.469 310211.868  801.607 GPR-7345
2447972.376 309698.72   784.294 GPR-7348
2447966.634 310055.736  794.642 GPR-7350
2447975.942 309532.729  780.725 GPR-7353
2447965.179 310208.838  801.645 GPR-7356
2447965.547 310208.116  801.637 GPR-7358
2446565.582 310759.134  790.106 GPR-736
2447977.641 309530.428  780.741 GPR-7363
2447969.095 310050.389  794.351 GPR-7364
2447963.769 310371.77   798.25  GPR-7365
2447975.825 309692.734  783.959 GPR-7367
2447978.918 309528.519  780.88  GPR-7368
2447968.642 310148.716  798.596 GPR-7369
2447965.956 310320.583  797.326 GPR-7371
2447979.405 309527.726  781.028 GPR-7373
2447979.465 309527.691  781.018 GPR-7374
2447974.622 309839.651  787.711 GPR-7377
2447974.709 309839.798  787.701 GPR-7379
2447971.326 310046.349  794.266 GPR-7380
2447965.982 310368.822  798.8   GPR-7381
2447969.311 310201.043  801.636 GPR-7385
2447972.72  310042.731  794.196 GPR-7387
2447972.94  310041.971  794.147 GPR-7388
2447968.735 310317.425  797.91  GPR-7391
2447971.785 310196.716  801.617 GPR-7395
2447969.137 310362.722  799.463 GPR-7396
2447972.121 310196.102  801.624 GPR-7398
2446568.987 310570.313  795.098 GPR-740
2447981.036 309684.229  783.632 GPR-7401
2447971.76  310313.799  798.539 GPR-7404
2447974.634 310191.156  801.538 GPR-7407
2447980.829 309833.638  787.791 GPR-7409
2447977.667 310030.508  793.871 GPR-7410
2447978.494 310028.884  793.852 GPR-7414
2447985.007 309677.196  783.322 GPR-7418
2446565.013 310814.826  792.964 GPR-742
2447976.862 310187.334  801.245 GPR-7421
2447977.859 310129.246  798.938 GPR-7422
2447980.147 310025.744  793.808 GPR-7425
2447975.477 310309.565  799.092 GPR-7426
2447978.484 310184.267  800.964 GPR-7432
2447976.172 310353.264  800.656 GPR-7437
2447988.521 309670.883  783.065 GPR-7442
2447980.293 310180.656  800.884 GPR-7445
2447983.351 310020.264  793.7   GPR-7448
2447981.917 310120.576  798.706 GPR-7452
2447987.052 309817.759  787.52  GPR-7454
2447984.547 310017.917  793.628 GPR-7459
2447980.273 310304.62   799.824 GPR-7462
2447983.143 310175.061  800.89  GPR-7465
2447992.361 309662.865  782.838 GPR-7467
2446573.48  310312.375  788.513 GPR-747
2447981.768 310344.729  802.127 GPR-7470
2447987.568 310012.689  793.515 GPR-7472
2447982.746 310302.077  800.204 GPR-7473
2447988.395 310011.137  793.438 GPR-7477
2447984.742 310299.671  800.45  GPR-7480
2447987.026 310167.954  800.752 GPR-7481
2447984.657 310340.336  802.707 GPR-7482
2447990.325 310007.383  793.604 GPR-7483
2447988.59  310164.812  800.652 GPR-7488
2447997.47  309653.302  782.725 GPR-7490
2447989.94  310162.068  800.597 GPR-7496
2447992.881 310001.637  793.603 GPR-7497
2447987.438 310335.358  803.233 GPR-7500
2447991.137 310159.649  800.536 GPR-7504
2447989.019 310295.628  801.205 GPR-7505
2448000.693 309646.73   782.503 GPR-7508
2446563.883 310897.123  793.574 GPR-751
2447992.607 310156.833  800.469 GPR-7511
2447999.363 309795.902  787.261 GPR-7515
2447996.247 309995.322  793.374 GPR-7516
2447991.28  310293.336  801.62  GPR-7517
2447991.798 310292.543  801.756 GPR-7524
2447992.081 310293.313  801.692 GPR-7531
2447994.525 310153.771  800.522 GPR-7533
2447994.617 310153.627  800.525 GPR-7534
2447992.364 310327.904  804.332 GPR-7537
2446564.692 310859.091  793.432 GPR-754
2448004.306 309639.8    781.842 GPR-7540
2447999.845 309989.302  793.418 GPR-7547
2447995.829 310322.792  805.24  GPR-7553
2447997.277 310282.15   802.622 GPR-7555
2448008.816 309632.448  781.782 GPR-7558
2447999.109 310277.193  802.835 GPR-7563
2448004.486 309981.188  793.198 GPR-7565
2447999.575 310316.811  805.729 GPR-7568
2448000.799 310271.833  802.914 GPR-7570
```

2448003.664	310139.033	800.513	GPR-7572
2448009.826	309776.38	786.996	GPR-7575
2448004.002	310138.31	800.486	GPR-7576
2448001.858	310268.719	802.997	GPR-7577
2448012.918	309624.689	781.813	GPR-7579
2448007.235	309976.355	793.143	GPR-7580
2448005.29	310135.747	800.387	GPR-7584
2448002.549	310312.637	806.27	GPR-7585
2448014.631	309621.514	781.722	GPR-7588
2448009.74	309971.882	793.162	GPR-7593
2448007.125	310132.355	800.258	GPR-7595
2448008.501	310129.83	800.148	GPR-7603
2448017.747	309615.96	781.664	GPR-7604
2448006.445	310306.549	807.182	GPR-7605
2448018.199	309615.494	781.714	GPR-7606
2448018.198	309615.567	781.568	GPR-7609
2446571.169	310479.989	793.95	GPR-761
2448018.198	309615.567	781.497	GPR-7610
2448009.665	310127.555	799.963	GPR-7612
2448018.229	309615.494	781.654	GPR-7613
2448018.228	309615.531	781.514	GPR-7614
2448018.228	309615.531	781.601	GPR-7615
2448018.228	309615.567	781.48	GPR-7617
2448018.228	309615.567	781.519	GPR-7618
2446567.769	310686.394	795.23	GPR-762
2448018.258	309615.495	781.554	GPR-7620
2448018.258	309615.531	781.495	GPR-7622
2448018.258	309615.531	781.457	GPR-7623
2448018.258	309615.531	781.549	GPR-7624
2448018.257	309615.568	781.467	GPR-7627
2448012.429	309967.049	793.047	GPR-7629
2448007.626	310255.272	803.785	GPR-7630
2448011.136	310124.704	799.685	GPR-7636
2448009.449	310250.824	803.911	GPR-7637
2448012.423	310122.177	799.448	GPR-7641
2448018.542	309762.109	786.545	GPR-7642
2448015.296	309962.254	793.141	GPR-7643
2448009.91	310301.401	807.732	GPR-7645
2448011.363	310246.233	803.742	GPR-7647
2448014.626	310118.027	799.071	GPR-7656
2448018.503	309956.592	792.922	GPR-7660
2448014.421	310240.604	803.886	GPR-7664
2448016.55	310114.637	798.679	GPR-7665
2446570.764	310522.214	794.171	GPR-767
2448014.824	310292.927	808.072	GPR-7672
2448018.109	310111.859	798.361	GPR-7673
2448016.845	310235.693	803.715	GPR-7678
2448022.053	309949.916	792.536	GPR-7679
2448019.61	310108.935	798.011	GPR-7680
2448018.452	310231.788	803.594	GPR-7684
2448027.114	309747.58	786.631	GPR-7687
2448021.651	310105.62	797.653	GPR-7689
2448020.274	310227.413	803.517	GPR-7694
2448023.12	310102.878	797.478	GPR-7699
2448020.329	310282.789	808.263	GPR-7701
2448026.544	309941.872	792.682	GPR-7704
2448022.296	310223.442	803.428	GPR-7709
2448024.561	310099.989	797.251	GPR-7712
2448026.307	310096.596	796.957	GPR-7722
2448023.891	310277.169	808.491	GPR-7727
2448025.221	310216.902	803.32	GPR-7728
2448030.73	309934.369	792.907	GPR-7731
2448028.3	310092.661	796.768	GPR-7732
2448035.743	309733.234	787.189	GPR-7737
2446575.122	310295.619	788.202	GPR-774
2448030.168	310089.088	796.593	GPR-7740
2448028.892	310210.118	803.044	GPR-7743
2448027.882	310270.718	808.763	GPR-7744
2448034.659	309928.1	793.012	GPR-7748
2448032.121	310085.734	796.328	GPR-7749
2448028.463	310394.146	803.5	GPR-7760
2448028.462	310394.183	803.554	GPR-7761
2448028.637	310392.584	803.568	GPR-7763
2448034.293	310081.657	796.141	GPR-7767
2448031.451	310264.625	808.927	GPR-7768
2448040.476	309726.687	787.25	GPR-7769
2448032.618	310203.518	802.883	GPR-7771
2448029.711	310388.633	803.995	GPR-7773
2448038.436	309922.047	792.813	GPR-7776
2448035.89	310078.334	795.927	GPR-7778
2448031.183	310383.889	804.698	GPR-7780
2446570.094	310616.058	794.96	GPR-779
2448037.759	310074.688	795.799	GPR-7791
2448035.169	310258.534	808.755	GPR-7792
2448036.438	310196.628	802.524	GPR-7793
2448044.436	309718.525	786.919	GPR-7794
2448033.433	310378.72	805.335	GPR-7795
2448045.227	309717.3	786.755	GPR-7798
2448035.155	310374.999	805.848	GPR-7804
2448046.414	309715.5	786.499	GPR-7807
2448043.411	309913.465	792.688	GPR-7809
2446567.818	310758.407	790.267	GPR-781
2448040.914	310068.624	795.606	GPR-7810
2448039.427	310189.833	801.974	GPR-7811
2448036.744	310370.365	806.255	GPR-7814
2448048.601	309712.296	786.23	GPR-7816
2448045.511	309910.15	792.635	GPR-7818
2448038.609	310365.19	806.68	GPR-7819
2448044.125	310062.671	795.53	GPR-7823
2448041.067	310249.713	808.333	GPR-7824
2448040.415	310360.014	806.956	GPR-7828
2448048.271	309906.41	792.542	GPR-7829

```
2446573.661 310412.095  789.189 GPR-783
2448043.94  310180.516  801.412 GPR-7832
2448052.198 309706.349  785.823 GPR-7833
2448050.194 309903.093  792.348 GPR-7839
2446568.552 310723.141  790.622 GPR-785
2448040.14  310513.427  809.454 GPR-7850
2448040.14  310513.427  809.454 GPR-7851
2448040.14  310513.427  809.454 GPR-7852
2448040.14  310513.427  809.454 GPR-7853
2448040.14  310513.427  809.454 GPR-7854
2448040.14  310513.427  809.454 GPR-7855
2448040.14  310513.427  809.454 GPR-7856
2448040.14  310513.427  809.454 GPR-7857
2446575.587 310301.561  791.549 GPR-786
2448042.882 310354.23   807.333 GPR-7861
2448047.914 310055.926  795.423 GPR-7862
2448046.273 310175.713  801.14  GPR-7866
2448041.087 310511.731  809.094 GPR-7869
2448051.811 309900.316  792.167 GPR-7873
2448046.369 310241.1    807.695 GPR-7877
2448040.213 310631.786  808.382 GPR-7879
2448044.949 310349.386  807.58  GPR-7881
2448050.825 310050.222  795.457 GPR-7884
2448049.021 310169.096  800.568 GPR-7887
2448043.53  310507.476  808.278 GPR-7889
2446574.475 310377.377  789.711 GPR-789
2448053.89  309896.565  791.794 GPR-7891
2448040.901 310691.868  807.576 GPR-7895
2448041.967 310629.667  808.138 GPR-7896
2446525.301 310120.222  786.201 GPR-79
2448044.623 310505.929  808.218 GPR-7904
2448042.523 310631.933  806.973 GPR-7905
2448058.202 309696.51   784.529 GPR-7906
2448043.25  310632.747  805.399 GPR-7915
2448059.083 309695.25   784.395 GPR-7918
2446575.389 310327.697  788.082 GPR-792
2448048.58  310339.617  807.905 GPR-7923
2448042.737 310690.188  809.203 GPR-7926
2448042.845 310690.845  806.516 GPR-7929
2446575.389 310327.697  788.004 GPR-793
2448042.919 310689.936  808.982 GPR-7931
2448056.268 309892.6    792.225 GPR-7933
2448046.274 310502.898  808.077 GPR-7939
2448044.075 310636.583  807.355 GPR-7940
2448052.368 310162.198  799.82  GPR-7944
2448047.012 310501.272  807.993 GPR-7948
2448051.515 310232.922  807.377 GPR-7952
2448043.918 310688.715  807.641 GPR-7953
2448049.96  310335.089  808.035 GPR-7954
2448044.602 310677.913  807.661 GPR-7963
2448047.604 310499.571  807.962 GPR-7964
2448057.838 309889.094  792.18  GPR-7965
2448045.698 310661.949  808.106 GPR-7975
2448048.539 310496.82   807.925 GPR-7978
2448046.051 310646.082  807.724 GPR-7980
2448056.166 310040.991  795.487 GPR-7982
2448062.422 309690.537  783.998 GPR-7985
2446573.067 310479.984  793.989 GPR-799
2448059.759 309885.923  792.108 GPR-7991
2448046.151 310702.331  805.748 GPR-7992
2448049.82  310492.873  808.075 GPR-7993
2448047.861 310621.1    808.586 GPR-7995
2448053.029 310328.806  808.031 GPR-7998
2448056.088 310152.43   798.987 GPR-8000
2448050.907 310489.942  808.181 GPR-8002
2448061.105 309883.397  792.055 GPR-8004
2448061.659 309882.204  792.006 GPR-8008
2448055.967 310225.46   806.84  GPR-8009
2448056.515 310224.595  806.778 GPR-8015
2448052.203 310486.869  808.182 GPR-8016
2448059.893 310034.391  795.57  GPR-8017
2448065.987 309684.771  783.494 GPR-8018
2448062.845 309880.367  791.978 GPR-8019
2448058.873 310145.377  798.279 GPR-8022
2448053.31  310484.485  808.326 GPR-8024
2448056.083 310321.648  808.021 GPR-8026
2448057.792 310222.687  806.636 GPR-8027
2446572.785 310521.919  794.289 GPR-803
2448063.787 309879  791.969 GPR-8031
2448067.716 309682.397  783.258 GPR-8033
2448054.414 310482.282  808.301 GPR-8034
2448054.999 310480.981  808.249 GPR-8038
2448059.463 310220.276  806.438 GPR-8039
2446576.073 310327.6    788.325 GPR-804
2448062.769 310028.978  795.507 GPR-8041
2448065.699 309876.338  791.897 GPR-8046
2448055.64  310479.827  808.277 GPR-8047
2448061.415 310138.721  797.337 GPR-8048
2448056.099 310478.961  808.329 GPR-8050
2448056.403 310478.529  808.399 GPR-8052
2448066.583 309874.896  791.847 GPR-8053
2448056.592 310477.877  808.42  GPR-8055
2448056.687 310477.514  808.413 GPR-8056
2448061.614 310217.472  806.339 GPR-8058
2448064.976 310024.646  795.607 GPR-8059
2448055.254 310611.467  809.28  GPR-8060
2448071.005 309677.173  783.106 GPR-8065
2448067.924 309872.698  791.792 GPR-8066
2448057.89  310474.695  808.407 GPR-8067
2446572.312 310569.968  795.266 GPR-807
2448061.551 310310.162  808.161 GPR-8071
2448059.025 310472.384  808.587 GPR-8073
```

```
2448069.202 309870.68   791.771 GPR-8074
2448059.423 310471.626  808.535 GPR-8076
2446570.387 310685.855  795.771 GPR-808
2448064.4   310213.95   806.115 GPR-8080
2448073.57  309672.665  782.913 GPR-8081
2448060.81  310468.482  808.341 GPR-8082
2448056.969 310709.575  806.191 GPR-8084
2448071.359 309867.549  791.859 GPR-8086
2448061.542 310465.436  809.192 GPR-8087
2448061.553 310466.564  808.464 GPR-8088
2448069.183 310017.689  795.626 GPR-8089
2448065.981 310211.574  805.83  GPR-8090
2448067.506 310127.209  796.536 GPR-8093
2448062.076 310465.444  808.867 GPR-8095
2448062.56  310463.05   809.266 GPR-8098
2448065.774 310300.439  808.328 GPR-8103
2448068.884 310122.754  795.821 GPR-8104
2448063.744 310459.611  809.255 GPR-8107
2448073.697 309864.238  791.944 GPR-8108
2448077.083 309666.425  782.8   GPR-8109
2446567.697 310858.45   793.479 GPR-811
2448072.555 310011.01   795.597 GPR-8116
2448065.272 310456.833  808.735 GPR-8118
2448075.426 309860.08   791.608 GPR-8120
2448069.652 310206.538  805.518 GPR-8121
2448063.108 310602.678  810.088 GPR-8122
2448068.915 310295.176  808.18  GPR-8128
2448072.348 310115.931  795.339 GPR-8130
2448080.265 309660.471  782.605 GPR-8131
2448077.263 309856.616  791.629 GPR-8132
2448067.441 310452.974  808.156 GPR-8134
2448075.407 310005.269  795.555 GPR-8140
2448074.296 310111.085  795.285 GPR-8142
2448078.818 309854.021  791.626 GPR-8144
2448075.872 310109.036  795.212 GPR-8150
2448080.224 309851.495  791.586 GPR-8151
2448070.58  310447.856  807.352 GPR-8155
2448074.841 310199.307  805.197 GPR-8157
2448073.438 310287.06   808.111 GPR-8158
2448084.075 309654.2    782.646 GPR-8159
2446573.432 310548.944  799.049 GPR-816
2448078.342 309999.966  795.754 GPR-8160
2448076.998 310107.234  795.189 GPR-8165
2448071.583 310446.38   807.227 GPR-8167
2448077.358 310107.022  795.221 GPR-8171
2448081.912 309847.992  791.514 GPR-8172
2448072.174 310444.715  807.229 GPR-8175
2448072.858 310442.761  807.247 GPR-8177
2448083.018 309845.681  791.435 GPR-8178
2446570.023 310757.679  790.426 GPR-818
2448076.311 310281.865  807.763 GPR-8180
2448083.694 309844.236  791.365 GPR-8181
2448074.075 310439.141  807.28  GPR-8185
2448078.351 310193.249  804.865 GPR-8186
2448087.563 309647.705  782.673 GPR-8188
2448069.838 310718.235  806.719 GPR-8189
2448074.822 310436.969  807.3   GPR-8191
2448082.544 309993.265  795.828 GPR-8192
2448072.951 310591.92   811.592 GPR-8194
2448086.172 309839.617  791.168 GPR-8197
2448076.568 310431.864  807.346 GPR-8198
2448077.311 310429.947  807.372 GPR-8202
2448081.81  310188.501  804.521 GPR-8205
2448085.234 309988.395  795.937 GPR-8206
2448078.19  310427.013  807.839 GPR-8208
2448081.213 310272.299  807.319 GPR-8212
2448091.787 309639.693  782.904 GPR-8213
2448079.036 310424.26   808.102 GPR-8215
2448089.156 309834.897  790.921 GPR-8216
2448079.998 310421.655  808.436 GPR-8219
2448088.502 309982.624  796.071 GPR-8223
2448091.554 309831.552  790.892 GPR-8226
2448085.704 310182.486  803.902 GPR-8227
2448095.319 309634.109  782.977 GPR-8228
2448082.368 310416.415  809.164 GPR-8229
2448092.951 309829.536  790.811 GPR-8232
2448085.746 310263.564  807.05  GPR-8234
2448084.325 310411.06   809.686 GPR-8237
2446568.233 310895.775  793.649 GPR-824
2448088.602 310177.583  803.262 GPR-8240
2448092.239 309977.189  796.046 GPR-8242
2448098.186 309629.278  783.029 GPR-8243
2448095.409 309826.118  790.694 GPR-8245
2448088.971 310256.846  806.661 GPR-8248
2448094.307 309974.056  796.026 GPR-8249
2448087.515 310404.669  810.19  GPR-8255
2448100.928 309624.846  782.882 GPR-8256
2448083.059 310727.084  807.261 GPR-8259
2448098.228 309822.379  790.683 GPR-8260
2448095.801 309971.569  796.012 GPR-8261
2448092.78  310170.59   802.297 GPR-8264
2448089.805 310398.882  810.623 GPR-8267
2448097.119 309968.97   796.057 GPR-8268
2446572.384 310658.401  792.022 GPR-827
2448092.678 310249.59   806.235 GPR-8270
2448090.301 310397.543  810.785 GPR-8272
2448097.805 309966.906  796.221 GPR-8275
2448100.379 309819.612  790.614 GPR-8278
2448104.056 309620.383  782.83  GPR-8279
2446570.299 310785.716  793.079 GPR-828
2448098.935 309964.923  796.13  GPR-8283
2448101.571 309817.484  790.523 GPR-8286
```

```
2448092.16  310392.732  811.572 GPR-8288
2448096.061 310165.802  801.367 GPR-8289
2448102.368 309815.895  790.439 GPR-8292
2448102.985 309814.449  790.355 GPR-8295
2448106.616 309616.167  782.719 GPR-8298
2448088.089 310729.425  808.121 GPR-8299
2446525.503 310111.597  784.618 GPR-83
2446572.084 310685.41   796.213 GPR-830
2448100.947 309961.607  795.931 GPR-8300
2448088.211 310729.245  808.337 GPR-8301
2448096.356 310242.37   805.784 GPR-8302
2448088.866 310730.822  807.541 GPR-8305
2448095.544 310385.325  811.215 GPR-8315
2448102.784 309958.106  795.938 GPR-8317
2448100.397 310158.193  800.634 GPR-8325
2448109.673 309610.611  782.616 GPR-8327
2448091.525 310724.276  808.65  GPR-8331
2448101.097 310157.149  800.51  GPR-8333
2448104.869 309953.954  795.519 GPR-8336
2448111.267 309607.47   782.731 GPR-8339
2448100.866 310234.982  805.287 GPR-8340
2448102.374 310155.204  800.216 GPR-8343
2448098.775 310378.207  810.876 GPR-8346
2448099.665 310376.438  810.931 GPR-8351
2448107.019 309949.439  795.353 GPR-8353
2448104.081 310152.357  799.73  GPR-8355
2448113.342 309603.9    782.701 GPR-8356
2448101.323 310372.971  811.179 GPR-8363
2448101.941 310371.488  811.32  GPR-8367
2448106.017 310148.311  798.88  GPR-8370
2448102.927 310369.211  811.538 GPR-8373
2448115.776 309600.191  782.773 GPR-8374
2448110.177 309943.193  795.313 GPR-8375
2448105.563 310225.34   803.92  GPR-8376
2448104.285 310366.03   811.841 GPR-8385
2446577.428 310411.94   789.177 GPR-839
2448099.028 310713.407  809.74  GPR-8390
2448112.829 309938.796  795.252 GPR-8396
2448118.849 309595.437  782.816 GPR-8398
2448108.521 310216.797  803.312 GPR-8399
2446572.885 310685.386  796.433 GPR-840
2448101.6   310646.207  813.509 GPR-8404
2448101.6   310646.243  813.45  GPR-8406
2448101.598 310646.316  813.42  GPR-8407
2448110.031 310142.189  798.085 GPR-8408
2448101.629 310646.28   813.412 GPR-8411
2448101.79  310645.482  813.438 GPR-8417
#2448103.154    310565.446  770.292 GPR-8418    Removed anaomalous elevations
2448102.267 310645.308  813.427 GPR-8420
2448107.834 310357.606  812.619 GPR-8424
2448120.773 309592.047  782.796 GPR-8427
2448110.696 310209.006  802.541 GPR-8428
2448104.3   310642.502  813.718 GPR-8431
2448112.99  310137.214  797.844 GPR-8433
2448117.01  309931.621  795.067 GPR-8435
2448122.906 309588.551  782.749 GPR-8438
2448110.373 310351.132  813.036 GPR-8439
2448113.696 310203.34   801.684 GPR-8441
2448105.872 310701.179  810.675 GPR-8444
2448115.985 310131.803  797.716 GPR-8445
2448108.052 310637.941  814.397 GPR-8448
2446579.354 310326.343  788.441 GPR-845
2448113.21  310344.517  812.996 GPR-8450
2448126.03  309584.307  782.727 GPR-8452
#2448110.675    310555.269  788.05  GPR-8459    Removed anaomalous elevations
2448121.367 309924.521  794.933 GPR-8460
2448127.947 309581.39   782.744 GPR-8466
2446573.417 310685.468  796.549 GPR-847
2448119.099 310126.394  797.524 GPR-8470
2448116.296 310337.214  812.607 GPR-8476
2448120.195 310124.665  797.493 GPR-8480
2448111.866 310633.199  814.865 GPR-8481
2448124.141 309919.944  794.843 GPR-8483
2448120.166 310195.766  801.576 GPR-8488
2448130.79  309576.195  782.753 GPR-8494
2448118.776 310332.486  812.258 GPR-8498
2448112.98  310687.317  812.072 GPR-8501
#2448116.385    310548.811  797.429 GPR-8506    Removed anaomalous elevations
2448127.06  309915.551  794.757 GPR-8508
2448123.826 310118.463  797.408 GPR-8511
2448115.657 310628.092  815.226 GPR-8512
2448121.053 310327.5    811.477 GPR-8514
2448133.862 309569.729  782.831 GPR-8516
2448128.16  309913.603  794.617 GPR-8517
2448123.561 310191.272  801.06  GPR-8518
2446580.276 310294.103  787.809 GPR-852
2448130.159 309909.231  794.766 GPR-8530
2448123.749 310322.266  811.008 GPR-8534
2448119.437 310621.82   815.338 GPR-8538
2448128.007 310111.288  797.424 GPR-8539
2448127.322 310184.345  800.656 GPR-8544
2448132.717 309905.16   795.039 GPR-8547
2446572.386 310783.202  792.656 GPR-855
2448120.025 310673.673  814.251 GPR-8550
2448126.08  310317.572  810.704 GPR-8552
2448126.6   310316.598  810.64  GPR-8556
2448139.51  309559.921  783.036 GPR-8559
#2448123.174    310539.895  804.784 GPR-8560    Removed anaomalous elevations
2448130.813 310101.178  797.15  GPR-8564
2448122.669 310614.666  815.563 GPR-8566
2448134.872 309902.174  795.036 GPR-8569
2448128.195 310313.384  810.396 GPR-8570
```

```
2448129.085 310311.542  810.279 GPR-8575
2448131.668 310176.153  800.455 GPR-8577
2448129.821 310310.062  810.274 GPR-8582
2448136.85  309899.113  795.11  GPR-8583
2448125.438 310608.595  815.668 GPR-8587
2448124.969 310665.163  814.601 GPR-8590
2448143.537 309553.107  783.128 GPR-8591
2448131.075 310307.753  810.302 GPR-8593
2448134.843 310094.182  797.146 GPR-8595
#2448128.135    310533.898  807.44  GPR-8598    Removed anaomalous elevations
2446577.066 310521.153  794.597 GPR-860
2448132.204 310305.842  810.353 GPR-8600
2448139.403 309895.332  795.046 GPR-8602
2448132.788 310304.614  810.366 GPR-8604
2448128.664 310601.768  815.679 GPR-8610
2448136.152 310168.582  799.948 GPR-8611
2448134.634 310300.531  810.289 GPR-8614
2448138.285 310088.669  797.285 GPR-8615
2448134.851 310299.988  810.264 GPR-8616
2448141.842 309891.296  795.109 GPR-8617
2448147.872 309545.57   783.257 GPR-8618
2448136.103 310297.788  810.004 GPR-8623
2448131.209 310596.678  816.044 GPR-8624
2448144.197 309886.93   795.462 GPR-8628
2446579.814 310375.391  789.651 GPR-863
2448137.787 310294.54   809.685 GPR-8631
2448140.214 310161.442  799.053 GPR-8632
2448145.17  309885.49   795.359 GPR-8633
2448133.474 310590.635  816.035 GPR-8634
#2448134.85 310525.855  810.67  GPR-8637    Removed anaomalous elevations
2448142.313 310081.746  797.607 GPR-8638
2446579.208 310411.86   789.309 GPR-864
2448139.136 310291.905  809.389 GPR-8640
2448133.181 310649.099  815.249 GPR-8641
2448152.47  309538.256  783.336 GPR-8647
2448140.483 310289.306  809.038 GPR-8651
2448147.301 309882.103  795.123 GPR-8652
2448150.227 309738.601  789.666 GPR-8657
2448141.097 310288.042  808.857 GPR-8658
2448136.155 310584.527  816.162 GPR-8659
2448148.795 309879.616  795.009 GPR-8666
2448144.206 310154.882  798.468 GPR-8667
2448151.444 309736.728  789.412 GPR-8668
2448140.677 310389.718  813.442 GPR-8673
2448140.676 310389.755  813.459 GPR-8679
2446578.194 310480.033  794.083 GPR-868
2448140.676 310389.755  813.427 GPR-8680
2448140.9   310388.812  813.491 GPR-8683
2448155.524 309532.883  783.392 GPR-8689
2448141.458 310385.545  813.685 GPR-8691
2448147.241 310074.183  798.108 GPR-8698
2448142.195 310382.244  813.706 GPR-8699
2446525.663 310103.772  784.568 GPR-87
#2448140.271    310518.991  812.606 GPR-8701    Removed anaomalous elevations
2448151.293 309875.616  795.139 GPR-8704
2448153.917 309732.437  789.059 GPR-8707
2448139.931 310576.69   816.316 GPR-8708
2448143.337 310377.712  813.735 GPR-8709
2448145.12  310279.663  808.292 GPR-8713
2448145.275 310279.265  808.273 GPR-8717
2448143.795 310375.135  813.522 GPR-8719
#2448141.472    310516.281  815.687 GPR-8721    Removed anaomalous elevations
2448144.173 310373.831  813.523 GPR-8728
2448152.811 309873.421  795.305 GPR-8734
2448140.095 310636.254  815.573 GPR-8736
2448146.108 310277.313  808.173 GPR-8737
2446581.537 310309.196  789.515 GPR-874
#2448142.232    310516.912  813.63  GPR-8740    Removed anaomalous elevations
2448148.483 310147.308  797.869 GPR-8742
2448144.867 310371.33   813.461 GPR-8745
2448146.726 310275.83   808.074 GPR-8748
2448159.448 309526.868  783.537 GPR-8750
2448147.22  310274.637  807.987 GPR-8752
2448156.663 309727.713  788.563 GPR-8756
2448146.286 310366.22   813.393 GPR-8758
2448147.868 310273.082  807.869 GPR-8759
2446574.319 310756.075  790.439 GPR-876
2448155.031 309870.108  795.551 GPR-8762
2448143.654 310568.561  816.185 GPR-8764
2448147.236 310362.559  813.348 GPR-8766
2446573.451 310813.62   793.754 GPR-877
2448149.099 310270.372  807.642 GPR-8770
2448156.095 309868.488  795.669 GPR-8773
2448148.136 310360.135  813.277 GPR-8775
2448149.713 310269.108  807.618 GPR-8776
2448153.333 310066.166  798.691 GPR-8777
2448156.675 309867.515  795.737 GPR-8778
2448148.854 310357.963  813.09  GPR-8783
2448149.261 310356.659  812.954 GPR-8785
2448146.866 310509.235  816.063 GPR-8787
2448149.76  310355.211  812.972 GPR-8788
2448153.424 310138.98   797.108 GPR-8789
2448163.945 309518.533  783.681 GPR-8792
2448150.024 310353.613  812.874 GPR-8794
2448150.304 310352.817  812.866 GPR-8800
2448160.983 309721.086  787.754 GPR-8802
2448147.097 310561.155  816.26  GPR-8804
2448150.71  310351.586  812.853 GPR-8806
2448155.327 310135.044  797.055 GPR-8815
2448156.583 310061.487  798.683 GPR-8816
2448155.45  310134.791  797.029 GPR-8819
2446577.841 310569.041  795.938 GPR-882
```

```
2448151.928 310347.856  812.575 GPR-8820
2448163.212 309717.228  787.244 GPR-8824
2448154.205 310259.244  807.711 GPR-8825
2448153.753 310343.263  812.303 GPR-8829
2448150.306 310553.599  816.682 GPR-8830
2448155.568 310255.772  807.603 GPR-8832
2448149.752 310617.047  816.428 GPR-8834
2448155.167 310340.229  812.029 GPR-8839
2448156.734 310253.352  807.539 GPR-8840
2448165.932 309712.322  786.884 GPR-8841
2448169.649 309508.871  783.609 GPR-8845
2448161.207 310054.392  798.584 GPR-8852
2448153.289 310547.132  816.968 GPR-8854
2448167.529 309708.963  786.537 GPR-8858
2446581.078 310411.745  789.426 GPR-886
2448158.73  310249.199  807.592 GPR-8861
2448165.38  309853.898  795.433 GPR-8863
2448168.294 309707.556  786.427 GPR-8867
2448166.049 309852.853  795.33  GPR-8869
2448158.171 310334.344  811.5   GPR-8871
2448160.543 310245.406  807.275 GPR-8876
2448155.63  310541.892  817.019 GPR-8878
2446577.924 310614.041  795.743 GPR-888
2448167.328 309850.836  795.238 GPR-8881
2448154.862 310607.521  816.815 GPR-8882
2448161.81  310242.296  807.142 GPR-8887
2448174.23  309499.082  783.592 GPR-8888
2446580.206 310480.284  794.359 GPR-889
2448165.193 310050.017  798.838 GPR-8890
2448171.072 309702.687  786.133 GPR-8892
2448160.715 310329.29   810.996 GPR-8893
2448162.856 310239.984  807.052 GPR-8896
2448158.201 310536.984  817.039 GPR-8897
2448172.736 309700.713  786.076 GPR-8905
2448170.557 309845.611  795.259 GPR-8909
2448164.671 310236.046  806.899 GPR-8914
2448163.267 310323.799  810.234 GPR-8915
2448173.753 309698.399  785.941 GPR-8916
2448177.272 309492.652  783.57  GPR-8917
2448168.239 310043.369  799.057 GPR-8920
2448168.332 310043.116  799.05  GPR-8922
2448160.787 310531.275  816.875 GPR-8927
2448172.388 309842.51   795.339 GPR-8929
2448166.055 310233.011  806.78  GPR-8930
2448175.039 309695.909  785.686 GPR-8931
2448169.823 310040.811  798.975 GPR-8938
2448165.234 310319.645  809.785 GPR-8939
2446580.74  310480.22   794.279 GPR-894
2448167.316 310230.301  806.674 GPR-8941
2448163.139 310489.738  817.749 GPR-8944
2448162.566 310527.664  816.666 GPR-8945
2446584.038 310297.806  791.425 GPR-895
2448177.838 309691.623  785.377 GPR-8951
2448167.444 310315.094  809.436 GPR-8952
2448168.976 310226.725  806.534 GPR-8955
2448163.057 310590.692  817.12  GPR-8958
2448175.708 309837.177  795.351 GPR-8959
2446579.935 310548.287  799.439 GPR-896
2448172.428 310037.468  798.962 GPR-8960
2448165.042 310523.191  816.715 GPR-8965
2448182.537 309482.655  783.532 GPR-8966
2448170.975 310222.426  806.338 GPR-8973
2448171.65  310221.053  806.207 GPR-8978
2448170.259 310309.789  809.248 GPR-8980
2448180.709 309686.574  785.153 GPR-8981
2448178.418 309832.854  795.231 GPR-8983
2448175.089 310034.345  798.965 GPR-8984
2448167.038 310519.037  816.657 GPR-8985
2448176.913 310031.609  798.961 GPR-8997
2448169.59  310513.546  816.615 GPR-9002
2448181.194 309828.167  795.2   GPR-9004
2448173.353 310303.834  809.003 GPR-9006
2448175.351 310214.198  805.875 GPR-9009
2448184.375 309680.046  785.036 GPR-9010
2448175.781 310213.295  805.854 GPR-9013
2448179.079 310027.931  798.771 GPR-9015
2448188.433 309472.195  783.488 GPR-9017
2448171.711 310508.994  816.704 GPR-9023
2448175.531 310299.392  808.876 GPR-9025
2448183.696 309823.877  795.192 GPR-9026
2446577.73  310722.055  790.458 GPR-903
2448178.224 310207.219  805.343 GPR-9035
2448185.13  309821.461  795.163 GPR-9040
2448181.888 310023.027  798.892 GPR-9041
2448187.833 309673.55   784.925 GPR-9042
2448174.981 310474.644  818.452 GPR-9048
2446584.682 310325.049  788.739 GPR-905
2448174.646 310503.618  816.819 GPR-9050
2448178.243 310293.212  808.699 GPR-9051
2448179.843 310204.334  804.884 GPR-9052
2448192.611 309465.166  783.675 GPR-9056
2448183.912 310018.947  798.994 GPR-9058
2446581.44  310520.17   794.899 GPR-906
2448176.508 310500.446  816.996 GPR-9062
2448187.997 309816.631  794.963 GPR-9064
2448180.17  310289.676  808.717 GPR-9065
2448173.409 310696.989  814.941 GPR-9067
2448181.776 310200.434  804.275 GPR-9069
2446583.275 310411.527  789.49  GPR-907
2448191.194 309667.526  784.976 GPR-9071
2446579.213 310657.75   792.697 GPR-908
2448189.677 309813.637  794.814 GPR-9082
```

```
2448177.287 310563.915  818.532 GPR-9083
2448183.489 310197.259  803.91  GPR-9084
2448195.994 309457.832  783.558 GPR-9088
2448178.691 310495.713  817.008 GPR-9089
2446577.78  310754.713  790.452 GPR-909
2448196.239 309457.362  783.475 GPR-9092
2448175.916 310692.371  815.182 GPR-9099
2446527.738 309987.815  777.193 GPR-91
2448187.395 310012.779  799.015 GPR-9100
2448193.329 309663.958  784.967 GPR-9101
2448179.831 310493.11   816.969 GPR-9106
2446581.767 310520.103  794.922 GPR-911
2448188.339 310011.229  799.035 GPR-9110
2448185.314 310194.486  803.683 GPR-9112
2448191.783 309809.995  794.728 GPR-9114
#2448176.227    310743.054  800.734 GPR-9117    Removed anaomalous elevations
#2448176.227    310743.054  800.734 GPR-9118    Removed anaomalous elevations
#2448176.379    310742.875  801.702 GPR-9120    Removed anaomalous elevations
2448181.312 310489.64   816.862 GPR-9126
2448185.151 310280.73   808.378 GPR-9129
2446581.024 310568.365  796.301 GPR-913
2448186.906 310191.418  803.484 GPR-9131
#2448177.949    310741.153  803.022 GPR-9132    Removed anaomalous elevations
2448196.069 309659.634  784.912 GPR-9134
#2448178.197    310740.466  803.117 GPR-9136    Removed anaomalous elevations
2446579.122 310684.653  796.815 GPR-914
2448193.918 309806.426  794.671 GPR-9140
2448181.615 310555.031  818.232 GPR-9141
2448182.814 310486.643  816.977 GPR-9144
2448190.828 310007.776  799.132 GPR-9145
2448179.697 310686.099  814.891 GPR-9146
2448188.648 310188.316  803.054 GPR-9150
2448184.005 310484.552  816.995 GPR-9153
2448198.357 309655.741  784.848 GPR-9157
2446581.976 310520.033  794.934 GPR-916
2448184.984 310482.748  816.974 GPR-9160
2448185.658 310461.862  818.047 GPR-9162
2448185.905 310480.87   816.963 GPR-9170
2448194.058 310002.514  799.193 GPR-9171
#2448181.881    310734.666  803.514 GPR-9174    Removed anaomalous elevations
2448189.648 310272.359  808.471 GPR-9175
2448197.907 309800.049  794.676 GPR-9177
2448194.786 310001.471  799.216 GPR-9179
2448187.169 310477.942  817.004 GPR-9183
2448201.287 309650.693  784.879 GPR-9185
2448195.671 309999.956  799.25  GPR-9187
2448191.883 310268.1    808.333 GPR-9192
2448193.779 310179.227  802.587 GPR-9194
2448189.042 310474.041  817.018 GPR-9196
2448197.197 309997.361  799.284 GPR-9197
2448186.058 310674.337  814.746 GPR-9199
2446583.019 310480.44   794.256 GPR-920
2448189.055 310542.595  817.484 GPR-9202
2448201.696 309793.304  794.47  GPR-9203
2448204.727 309645.289  784.756 GPR-9208
2448194.695 310262.978  807.828 GPR-9209
2446576.362 310893.544  793.927 GPR-921
2448196.341 310173.19   802.675 GPR-9211
#2448187.159    310727.436  804.105 GPR-9213    Removed anaomalous elevations
2448199.612 309992.996  799.278 GPR-9215
2448191.803 310468.481  817.025 GPR-9218
2448201.054 309990.071  799.298 GPR-9222
2448193.672 310452.384  817.371 GPR-9224
2448198.969 310168.428  802.772 GPR-9227
2448194.102 310463.932  817.061 GPR-9229
2446585.327 310373.626  789.52  GPR-923
2448191.035 310665.646  815.194 GPR-9234
2448202.526 309987.074  799.317 GPR-9236
2448208.398 309638.433  784.636 GPR-9237
2448205.933 309786.275  794.421 GPR-9238
2448198.457 310256.05   807.143 GPR-9241
2448206.694 309785.123  794.401 GPR-9243
2448195.542 310461.116  817.087 GPR-9245
2448194.538 310532.019  817.254 GPR-9246
2448200.667 310166.163  802.759 GPR-9247
2448210.059 309634.82   784.747 GPR-9250
2448207.579 309783.572  794.482 GPR-9251
2448196.461 310459.348  817.094 GPR-9253
2448205.184 309982.349  799.579 GPR-9258
2446577.58  310855.956  793.91  GPR-926
2448198.746 310384.534  814.447 GPR-9262
2448197.541 310456.781  817.226 GPR-9264
2448201.312 310250.164  806.392 GPR-9266
2448202.881 310163.178  803.447 GPR-9267
2448211.996 309630.702  784.715 GPR-9270
2448206.924 309979.319  799.779 GPR-9276
2448199.677 310453.139  817.174 GPR-9281
2448196.315 310656.523  815.436 GPR-9283
2448205.311 310157.867  803.788 GPR-9292
2448200.503 310451.588  817.187 GPR-9294
2448201.79  310393.977  813.329 GPR-9298
2448201.055 310450.468  817.195 GPR-9299
2446579.038 310784.223  793.423 GPR-930
2448202.463 310371.38   816.113 GPR-9300
2448214.95  309625.982  784.576 GPR-9301
2448204.829 310243.669  805.829 GPR-9304
2448209.337 309975.1    800.22  GPR-9305
2448202.131 310448.156  817.09  GPR-9309
2446587.324 310292.691  787.965 GPR-931
2448202.484 310441.245  816.978 GPR-9313
2448201.238 310519.534  817.34  GPR-9314
2448207.413 310154.48   803.998 GPR-9315
```

```
2448203.389 310445.592  817.051 GPR-9321
#2448198.977    310710.231  804.88  GPR-9322    Removed anaomalous elevations
2448211.352 309971.566  800.716 GPR-9323
2448217.868 309621.662  784.643 GPR-9329
2448212.491 309967.252  801.047 GPR-9333
2448209.66  310151.277  804 GPR-9335
2448208.267 310236.591  805.121 GPR-9337
2448204.984 310442.379  817.034 GPR-9338
2448213.113 309965.479  801.15  GPR-9339
2446586.281 310373.314  789.498 GPR-934
2448216.769 309769.309  794.797 GPR-9341
2448219.359 309619.357  784.622 GPR-9342
2448213.66  309962.94   801.205 GPR-9343
2448202.25  310647.266  815.841 GPR-9344
2446585.738 310411.386  789.348 GPR-935
2448220.212 309617.951  784.616 GPR-9350
2448212.055 310146.293  803.648 GPR-9358
2448215.223 309958.087  801.285 GPR-9359
2448207.262 310437.32   817.122 GPR-9360
2448208.226 310407.956  813.041 GPR-9362
#2448203.951    310701.685  805.183 GPR-9366    Removed anaomalous elevations
2448211.982 310230.682  804.55  GPR-9368
2448212.342 310230.433  804.498 GPR-9374
2446581.411 310684.254  796.507 GPR-938
2448214.348 310142.144  803.642 GPR-9382
2448209.709 310431.026  812.493 GPR-9384
2448220.891 309762.169  794.72  GPR-9386
2448209.861 310432.594  817.198 GPR-9387
2448214.991 310140.881  803.667 GPR-9389
2446579.793 310781.651  792.325 GPR-939
2448211.043 310422.128  812.161 GPR-9397
2448212.444 310361.244  810.603 GPR-9402
2448209.401 310634.388  816.334 GPR-9411
#2448208.631    310693.026  805.45  GPR-9413    Removed anaomalous elevations
2448213.223 310426.497  817.195 GPR-9414
2448212.045 310500.71   817.512 GPR-9415
2448221.284 309948.395  801.344 GPR-9416
2448221.709 309947.783  801.335 GPR-9419
2448218.72  310134.135  803.728 GPR-9421
2448225.376 309754.525  794.634 GPR-9422
2448219.31  310132.543  803.712 GPR-9424
2448222.562 309946.414  801.337 GPR-9425
2448228.606 309603.419  784.619 GPR-9427
2448215.123 310422.815  817.182 GPR-9428
2446588.152 310307.085  790.033 GPR-943
2448220.525 310130.815  803.648 GPR-9430
2448217.022 310351.563  808.579 GPR-9431
2448224.249 309942.983  801.416 GPR-9435
2448215.135 310494.937  817.471 GPR-9436
2448214.119 310625.219  816.666 GPR-9442
#2448213.23 310685.639  806.275 GPR-9443    Removed anaomalous elevations
2448217.874 310417.801  816.918 GPR-9444
2448226.187 309938.792  801.529 GPR-9445
2448223.396 310127.478  803.531 GPR-9448
2448218.851 310416.106  816.653 GPR-9451
2448218.884 310415.888  816.459 GPR-9452
2448218.913 310415.925  816.504 GPR-9455
2448218.912 310415.961  816.545 GPR-9456
2448218.071 310489.525  817.542 GPR-9457
2446585.127 310519.467  794.994 GPR-946
2448224.942 310125.465  803.436 GPR-9462
2448231.627 309744.072  794.411 GPR-9464
2448220.121 310485.7    817.528 GPR-9470
2448218.118 310618.296  817.02  GPR-9471
2448229.839 309933.101  801.537 GPR-9472
2448226.674 310122.909  803.274 GPR-9473
2448224.566 310334.687  808.188 GPR-9478
2448228.329 310119.66   803.521 GPR-9479
2448232.403 309928.629  801.405 GPR-9486
2448223.349 310480.548  817.508 GPR-9487
2448232.833 309927.726  801.351 GPR-9488
2448224.703 310477.585  817.444 GPR-9499
2446581.592 310753.648  791.067 GPR-950
#2448221.469    310671.542  809.238 GPR-9500    Removed anaomalous elevations
2448230.866 310116.862  803.487 GPR-9503
2448222.879 310610.074  816.884 GPR-9505
2448238.03  309733.402  794.004 GPR-9507
2448235.074 309924.924  801.52  GPR-9509
2446587.476 310412.034  789.355 GPR-951
2448233.793 310111.996  803.039 GPR-9517
2448228.771 310470.044  817.419 GPR-9523
#2448225.578    310665.13   810.915 GPR-9524    Removed anaomalous elevations
2448231.525 310319.112  807.765 GPR-9525
2448238.694 309921.125  801.908 GPR-9529
2446585.427 310547.796  799.814 GPR-953
2448233.119 310315.934  807.577 GPR-9533
2448230.974 310465.967  817.507 GPR-9537
2448237.48  310105.978  803.198 GPR-9540
2448229.973 310598.87   817.304 GPR-9544
2448247.372 309567.799  784.446 GPR-9546
2448245.141 309719.395  793.266 GPR-9547
2446587.897 310411.64   789.102 GPR-955
2448236.299 310308.378  807.809 GPR-9551
2448242.969 309917.192  802.154 GPR-9553
2448236.901 310304.238  808.303 GPR-9555
2448243.574 309916.51   802.127 GPR-9557
2448231.529 310654.889  812.579 GPR-9558
2448245.027 309914.678  802.041 GPR-9565
2448242.657 310097.727  803.587 GPR-9566
2448235.021 310587.705  817.355 GPR-9570
2448237.958 310454.214  817.306 GPR-9573
2448247.313 309910.893  802.079 GPR-9575
```

```
2448241.197 310293.715  808.75  GPR-9576
2448247.864 309909.883  802.082 GPR-9579
2448245.999 310092.868  803.648 GPR-9582
2448250.193 309907.082  802.277 GPR-9584
2448237.924 310644.693  814.162 GPR-9585
2448241.551 310448.522  817.113 GPR-9587
2446588.042 310411.861  789.127 GPR-959
2448254.429 309702.803  792.264 GPR-9590
2448240.542 310576.584  817.459 GPR-9592
2448256.445 309699.268  792.091 GPR-9596
2448250.268 310085.694  803.133 GPR-9597
2448253.413 309902.403  802.317 GPR-9598
2446586.935 310480.251  794.258 GPR-960
2448244.539 310443.511  816.781 GPR-9600
2448241.312 310638.815  814.847 GPR-9601
2448248.121 310280.251  807.31  GPR-9604
2448246.068 310440.697  816.876 GPR-9608
2448261.861 309538.005  784.366 GPR-9610
2448260.104 309693.177  791.597 GPR-9611
2448253.978 310080.113  802.828 GPR-9613
2448246.248 310566.813  817.48  GPR-9617
2448257.627 309896.794  802.065 GPR-9618
2446581.532 310812.553  794.465 GPR-962
2448245.458 310631.967  815.73  GPR-9620
2448248.77  310435.136  816.546 GPR-9621
2448248.336 310562.479  817.83  GPR-9626
2448263.158 309687.767  791.175 GPR-9628
2448256.804 310075.973  802.656 GPR-9629
2448251.794 310429.761  816.641 GPR-9632
2448254.567 310267.034  806.334 GPR-9633
2448250.082 310559.085  818.144 GPR-9635
2448251.282 310556.484  818.161 GPR-9640
2448262.846 309889.636  802.146 GPR-9641
2448266.669 309681.636  790.43  GPR-9643
2448252.782 310553.633  818.09  GPR-9647
2448251.886 310621.553  816.352 GPR-9648
2448255.196 310424.831  816.404 GPR-9649
2448264.298 309887.876  802.077 GPR-9652
2448262.76  310067.226  802.419 GPR-9658
2448255.556 310549.056  817.988 GPR-9662
2448270.395 309675.109  789.919 GPR-9663
2448273.904 309510.901  784.093 GPR-9667
2448267.814 309883.238  802.057 GPR-9668
2448259.098 310418.379  816.252 GPR-9669
2448271.92  309672.513  789.777 GPR-9670
2448256.4   310613.946  816.974 GPR-9671
2448265.977 310062.729  802.706 GPR-9673
2448260.658 310415.492  816.246 GPR-9678
2448269.885 309879.924  802.008 GPR-9679
2448259.021 310543.907  817.934 GPR-9680
2448270.743 309878.227  801.873 GPR-9682
2448275.181 309667.215  789.421 GPR-9685
2448272.238 309875.667  801.699 GPR-9689
2446589.47  310372.311  789.422 GPR-969
2448263.423 310411.461  815.992 GPR-9690
2448258.736 310712.065  815.963 GPR-9693
2448258.736 310712.101  815.98  GPR-9694
2448258.735 310712.137  815.943 GPR-9695
2448262.056 310537.878  818.278 GPR-9698
2448270.481 310057.488  802.885 GPR-9699
2448277.411 309663.212  789.056 GPR-9703
2448261.819 310603.661  817.345 GPR-9705
2448268.069 310237.697  802.495 GPR-9706
2448260.499 310709.473  816.028 GPR-9707
2448265.949 310407.498  815.742 GPR-9712
2448261.569 310707.488  816.149 GPR-9714
2448262.177 310706.625  816.213 GPR-9718
2448274.017 310053.47   802.793 GPR-9722
2448268.237 310403.641  815.663 GPR-9723
2448263.271 310705.004  816.329 GPR-9726
2448266.205 310530.848  818.12  GPR-9727
2448271.56  310229.236  802.571 GPR-9730
2448281.996 309654.914  788.691 GPR-9733
2448266.713 310594.568  817.502 GPR-9736
2448278.916 309868.06   801.635 GPR-9738
2448268.096 310527.639  818.154 GPR-9740
2448276.314 310050.778  802.732 GPR-9741
2448266.856 310699.749  816.649 GPR-9748
2448275.066 310223.397  802.458 GPR-9752
2448284.66  309649.862  788.593 GPR-9753
2448270.562 310523.712  818.17  GPR-9758
2448288.223 309473.495  783.915 GPR-9759
2446587.745 310518.928  795.048 GPR-976
2448272.931 310394.144  814.65  GPR-9760
2448279.002 310047.837  802.75  GPR-9763
2448286.282 309646.794  788.619 GPR-9770
2448271.266 310586.38   817.645 GPR-9775
2448283.445 309861.364  801.455 GPR-9776
2448272.546 310520.323  818.136 GPR-9778
2446581.963 310891.853  794.241 GPR-978
2448277.98  310215.8    803.635 GPR-9781
2448287.777 309644.271  788.503 GPR-9785
2448290.952 309459.16   784.021 GPR-9787
2446587.438 310567.707  796.737 GPR-979
2448291.011 309459.161  783.993 GPR-9790
2448271.314 310693.743  816.723 GPR-9793
2448282.301 310043.778  802.827 GPR-9794
2448277.016 310387.332  814.027 GPR-9796
2448289.548 309641.169  788.495 GPR-9797
2448275.435 310515.93   818.212 GPR-9799
2448287.847 309855.139  800.532 GPR-9803
2448275.921 310579.249  817.897 GPR-9804
```

```
2448282.439 310207.901  804.142 GPR-9806
2448292.339 309637.321  788.494 GPR-9808
2448275.397 310687.076  816.961 GPR-9811
2448280.595 310380.692  813.596 GPR-9812
2448286.447 310038.677  802.8   GPR-9813
2448279.02  310510.71   818.352 GPR-9814
2448285.309 310202.889  804.342 GPR-9819
2448280.63  310508.407  818.292 GPR-9821
2448282.948 310378.256  813.282 GPR-9822
2448278.111 310680.75   817.34  GPR-9823
2448280.25  310572.04   817.2   GPR-9824
2448283.561 310377.028  813.233 GPR-9825
2448296.261 309631.452  788.425 GPR-9829
2446585.696 310683.269  796.879 GPR-983
2448279.692 310676.626  817.518 GPR-9833
2448282.254 310567.413  816.82  GPR-9836
2448291.303 310031.878  802.999 GPR-9837
2448283.998 310503.731  818.413 GPR-9839
2446586.919 310611.46   796.629 GPR-984
2448281.351 310671.339  817.798 GPR-9841
2448286.479 310372.708  813.194 GPR-9842
2448299.336 309626.588  788.595 GPR-9843
2448283.452 310666.24   817.827 GPR-9846
2448297.345 309843.793  800.208 GPR-9847
2448285.602 310562.19   817.351 GPR-9849
2448291.874 310191.384  804.8   GPR-9850
2448298.106 309842.604  800.202 GPR-9853
2448295.203 310027.319  802.952 GPR-9854
2448287.918 310497.971  818.358 GPR-9856
2448285.689 310661.872  817.822 GPR-9858
2446592.399 310294.122  790.929 GPR-986
2448303.254 309620.974  788.397 GPR-9860
2448299.909 309839.358  799.93  GPR-9864
2448289.686 310495.051  818.378 GPR-9870
2448289.751 310555.16   817.557 GPR-9877
2448295.986 310184.827  804.611 GPR-9878
2446589.397 310480.146  794.351 GPR-988
2448293.098 310365.1    812.909 GPR-9882
2448299.044 310022.759  803.384 GPR-9883
2448306.09  309616.216  788.389 GPR-9885
2448302.548 309835.725  799.544 GPR-9886
2448289.753 310651.018  818.429 GPR-9888
2448295.19  310360.512  812.868 GPR-9891
2448288.964 310739.218  814.533 GPR-9893
2448288.963 310739.255  814.592 GPR-9895
2448307.896 309612.823  788.246 GPR-9896
2448289.212 310738.567  814.45  GPR-9899
2448290.838 310648.16   818.639 GPR-9900
2448305.393 309832.204  799.511 GPR-9904
2448290.72  310735.243  814.835 GPR-9907
2448302.917 310018.018  803.674 GPR-9909
2448295.242 310485.423  818.437 GPR-9910
2448292.864 310643.971  818.699 GPR-9911
2448310.403 309608.242  788.297 GPR-9912
2448301.35  310177.781  804.373 GPR-9913
2448307.685 309828.092  799.163 GPR-9917
2448294.136 310640.606  818.865 GPR-9918
2448295.819 310545.031  817.904 GPR-9919
2446592.858 310305.743  790.515 GPR-992
2448299.638 310353.341  812.506 GPR-9921
2448312.702 309603.693  788.328 GPR-9924
2448296.092 310635.323  818.868 GPR-9928
2446583.975 310854.606  794.136 GPR-993
2448310.677 309821.152  798.2   GPR-9930
2448295.634 310726.733  815.263 GPR-9932
2448302.295 310348.652  812.152 GPR-9935
2448299.222 310538.243  818.347 GPR-9936
2448314.905 309599.579  788.482 GPR-9937
2448300.607 310476.521  818.308 GPR-9939
2448311.668 309818.583  798.048 GPR-9940
2448308.752 310011.235  803.528 GPR-9942
2448306.57  310168.73   804.354 GPR-9944
2448298.999 310629.838  819.028 GPR-9945
2446593.01  310321.619  789.404 GPR-995
2448313.61  309814.138  797.828 GPR-9950
2448302.847 310471.971  818.131 GPR-9952
2448302.951 310472.846  818.218 GPR-9956
2448305.162 310343.822  811.744 GPR-9957
2448303.027 310471.864  818.176 GPR-9958
2448318.502 309593.632  788.643 GPR-9960
2448311.682 310007.971  803.382 GPR-9961
2448301.804 310623.405  819.165 GPR-9963
2448303.432 310529.357  818.398 GPR-9964
2448307.258 310338.978  811.517 GPR-9969
2448316.323 309809.632  797.762 GPR-9971
2448301.175 310718.015  816.397 GPR-9972
2448310.964 310161.194  804.091 GPR-9974
2448321.444 309587.892  788.477 GPR-9979
2448318.107 309805.767  797.323 GPR-9983
2448304.687 310617.628  818.928 GPR-9985
2448306.36  310520.814  818.486 GPR-9986
2448318.878 309803.959  797.113 GPR-9992
2448310.811 310332.157  811.267 GPR-9994
2448316.638 310002.265  803.159 GPR-9997
2448324.103 309583.095  788.379 GPR-9999
Surface 1 "CPT Refusal"
2447742.68  310149.458  748.09172   TF-11-05
2447696.546 310191.777  747.92484   TF-11-02
2447758.734 310103.019  747.27672   TF-11-07
2447722.759 310222.789  747.99928   TF-11-01
2447777.953 310078.34   747.73296   TF-11-10
2447731.22  310194.651  748.3632    TF-11-03
```

2447756.872	310553.148	750.6242	WIL-60
2447121.565	309795.801	743.5744	WIL-68
2447767.531	310589.97	752.30176	WIL-59
2447873.211	309600.034	743.77572	P-03-02
2447785.755	310619.399	759.8594	WIL-58
2447893.155	309672.589	745.83968	P-03-01
2447281.584	309687.898	746.30816	WIL-66
2447318.905	309717.207	744.60536	WIL-67
2446895.633	309811.408	747.51504	WIL-71
2446937.055	309815.094	747.12028	WIL-70
2447096.461	309770.247	746.41564	WIL-69
2447664.092	310635.827	753.54792	WIL-53
2447252.219	309732.996	746.81448	WIL-65
2447048.321	309784.881	751.59112	WIL-72
2447706.787	310119.927	756.70352	TF-11-06
2447726.446	310072.929	756.71728	TF-11-09
2446785.859	310717.156	775.53152	LOR-35
2447682.167	310671.867	774.61644	WIL-54
2447751.611	310448.289	763.06168	WIL-62
2449761.494	309614.794	760.96232	TF-03-10
2447650.319	310554.047	765.46956	WIL-55
2447032.819	309742.185	756.96812	WIL-73
2447589.432	310527.067	767.9182	WIL-40
2447481.707	310369.504	767.10804	WIL-36
2447453.392	310290.666	765.85108	WIL-34
2447032.52	309968.117	760.14152	WIL-17
2448115.471	309507.022	759.9226	P-03-06
2447597.622	310575.126	767.86096	WIL-51
2447616.927	310468.932	765.75276	WIL-64
2447091.815	309977.165	761.89804	WIL-18
2447443.715	310334.832	769.26368	WIL-33
2447584.429	310415.275	768.972	WIL-37
2448117.2	309584.172	762.85532	P-03-05
2448002.862	309480.231	762.98416	P-03-04
2446678.778	310771.007	773.24884	LOR-33
2447776.968	310189.774	770.1284	TF-11-04
2447138.389	310453.977	777.1032	WIL-05
2448235.409	309561.75	765.6744	P-03-08
2449696.033	309627.496	769.05332	TF-03-07
2446627.747	310772.261	778.9808	LOR-32
2448228.89	309502.423	766.90216	P-03-09
2446946.578	310678.781	789.11528	LOR-03
2447612.927	309534.511	765.2532	TF-12-05
2446970.606	309978.32	766.81168	WIL-16
2447648.352	309542.994	764.22332	TF-12-07
2448104.506	310604.818	797.8504	TF-07-10
2449537.201	310623.423	809.01336	TF-05-07
2446565.676	310779.459	776.88544	LOR-18
2448154.285	310608.564	799.47036	TF-07-07
2447444.964	310482.483	777.53296	WIL-39
2447590.958	309558.045	766.39188	TF-12-02
2448140.619	310662.398	798.387	TF-07-09
2446947.957	310561.926	792.05056	LOR-13
2447513.562	310278.396	778.06692	WIL-35
2447996.487	309594.067	767.10944	P-03-03
2447711.866	310585.081	774.20372	WIL-57
2446955.831	310215.752	773.52356	WIL-10
2447352.964	310507.65	780.51216	WIL-43
2446728.121	310656.546	788.35588	LOR-08
2447109.983	310289.823	776.02404	WIL-24
2446921.355	310763.425	793.15452	LOR-01
2449708.299	309585.394	772.92124	TF-03-09
2447482.268	310434.131	776.78504	WIL-38
2447625.239	309578.547	768.94568	TF-12-03
2447433.68	310472.897	780.00592	WIL-49
2446825.28	310674.835	792.09008	LOR-07
2447659.817	309574.514	767.32748	TF-12-04
2446948.055	310181.68	772.64148	WIL-11
2447169.563	310241.085	778.7578	WIL-23
2447654.54	309609.122	768.0406	TF-12-01
2447610.795	310643.819	778.174	WIL-52
2449539.842	310560.41	811.69248	TF-05-08
2447638.611	310510.047	779.19048	WIL-41
2449272.031	309995.311	812.23988	TF-08-09
2446646.576	310700.646	784.343	LOR-34
2448216.544	309655.356	772.62632	P-03-07
2449652.836	309632.924	775.0656	TF-03-05
2448186.086	310697.214	801.66212	TF-07-08
2446825.173	310759.47	788.61164	LOR-05
2446913.87	310146.047	772.04084	WIL-12
2449564.107	310637.623	812.71304	TF-05-10
2446869.481	310045.617	771.48124	WIL-14
2447375.689	310409.04	782.44076	WIL-29
2447694.944	310004.18	774.30444	WIL-P1-01
2447654.147	309502.983	769.55984	TF-12-10
2447282.462	310264.308	782.94924	WIL-31
2447273.739	310352.885	783.47232	WIL-27
2449571.202	310585.414	812.60124	TF-05-09
2447418.825	310543.052	787.10592	WIL-30
2446751.448	310762.021	790.22152	LOR-12
2446646.415	310337.741	776.63924	LOR-25A
2446920.467	310013.691	771.4488	WIL-15
2447594.94	309515.641	772.48872	TF-12-06
2446668.576	310458.889	779.29564	LOR-30
2447446.082	310618.401	787.6248	WIL-45
2447044.157	310311.125	779.98944	WIL-08
2446815.77	310830.037	792.23988	LOR-06
2447569.846	309832.846	776.26552	WIL-P2-03
2447349.566	310368.679	785.86716	WIL-28
2447025.36	310363.235	783.3316	WIL-25
2447611.566	309770.482	775.9322	WIL-P2-04
2446683.141	310870.26	791.00384	LOR-15

```
2447612.887 309495.37   771.75776   TF-12-09
2447154.859 310099.07   779.82456   WIL-21
2446876.427 310093.162  774.01792   WIL-13
2446761.692 310839.185  791.99192   LOR-14
2447495.239 310597.871  788.28136   WIL-46
2446825.643 310477.594  796.0384    LOR-11
2449667.169 309699.224  780.09376   TF-03-04
2447151.884 310048.513  778.70732   WIL-20
2446734.113 310451.175  784.51548   LOR-29
2446727.28  310572.316  794.89444   LOR-09
2447406.588 310372.163  784.99464   WIL-32
2447005.124 310274.81   782.5616    WIL-09A
2447573.86  309499.632  773.80744   TF-12-08
2447543.734 310599.238  788.94824   WIL-47
2447567.442 310652.069  790.5782    WIL-48
2446760.881 310365.59   791.62308   LOR-27
2446575.823 310531.904  780.62548   LOR-21
2447159.974 309974.824  778.28624   WIL-19
2446821.979 310559.633  797.64048   LOR-10
2449644.077 309587.3    780.44244   TF-03-06
2447017.554 310662.518  798.48516   LOR-04
2449497.44  310596.589  819.03576   TF-05-05
2446587.046 310682.277  791.77512   LOR-19
2447663.423 309856.006  776.86056   WIL-P2-02
2448789.248 310252.764  820.98012   P-04-01
2447013.429 310749.079  803.2522    LOR-02
2446574.368 310447.911  780.4416    LOR-22
2448785.03  309540.084  793.38768   TF-09-09
2449187.01  310119.442  821.28716   TF-08-01
2448201.885 310616.565  810.36188   TF-07-05
2448778.715 310569.445  826.3098    TF-06-05
2447512.883 310535.233  785.56128   WIL-50
2449485.786 310562.695  820.81616   TF-05-06
2446568.5   310613.769  782.6958    LOR-20
2448813.456 309568.226  795.38988   TF-09-07
2448317.917 309925.765  798.76  TF-10-09
2446804.413 310414.139  791.91476   LOR-28
2448391.358 309921.771  797.447 TF-10-06
2448790.959 310168.101  810.73008   P-04-03
2448769.037 310213.731  812.05244   P-04-02
2449233.435 310046.093  821.76152   TF-08-05
2447723.791 309866.774  792.56368   WIL-P2-01
2447688.346 310508.379  785.44124   WIL-56
2448319.104 309952.357  797.59736   TF-10-07
2449621.488 309562.523  784.01456   TF-03-08
2447202.826 310536.216  796.76036   WIL-04
2448761.882 310481.101  823.36248   TF-06-10
2446708.344 310301.379  780.41476   LOR-26
2447205.878 310170.998  789.40176   WIL-22
2449024.983 310175.384  825.32504   P-04-06
2448793.611 310632.835  823.75868   TF-06-02
2447194.188 310331.792  791.4006    WIL-26
2448145.458 309891.448  791.8314    TF-10-03
2448795.829 309706.976  798.56124   TF-09-01
2447659.502 310100.698  784.46792   TF-11-08
2446612.674 310885.096  791.85372   LOR-16
2447142.591 310378.516  789.33048   WIL-06
2448243.58  309965.418  792.47008   TF-10-08
2448243.299 309816.678  793.06188   TF-10-04
2447303.637 310545.738  796.6266    WIL-44
2447105.008 310337.706  787.49664   WIL-07
2448154.647 310040.177  795.48388   TF-10-02
2448204.371 310099.857  797.78608   TF-10-01
2448740.107 309556.771  795.7492    TF-09-08
2449455.491 310659.55   826.01576   TF-05-04
2448798.306 309603.061  799.33112   TF-09-05
2446568.145 310857.159  791.5748    LOR-17
2447570.28  309966.71   786.9548    WIL-P1-02
2447243.61  310590.84   801.20064   WIL-03A
2448792.882 309657.54   794.534
2448772.112 309585.383  799.56872   TF-09-06
2447243.61  310590.84   801.33184   WIL-03
2448186.415 310557.91   814.83452   TF-07-04
2448738.891 309660.904  799.84916   TF-09-02
2448189.071 310652.395  813.25092   TF-07-06
2448779.633 310518.325  829.33084   TF-06-07
2446582.622 310345.217  783.49464   LOR-24
2449591.975 309630.573  786.65528   TF-03-02
2449446.896 310577.484  825.14072   TF-05-02
2448224.305 310577.395  815.505 TF-07-03
2449207.361 310080.222  825.04832   TF-08-03
2448442.603 310266.542  814.19528   TF-13-01
2447006.457 310277.044  788.67444   WIL-09
2449618.667 309656.945  786.98836   TF-03-03
2448267.232 310552.921  816.85836   TF-07-01
2448402.145 309828.871  797.10844   TF-10-05
2446645.911 310383.212  787.17  LOR-31
2447321.025 310672.495  807.8398    WIL-01
2449451.249 310614.238  827.80972   TF-05-03
2447706.322 310428.054  788.44984   WIL-63
2448252.266 310620.985  816.7782    TF-07-02
2448462.676 310237.875  815.31684   TF-13-02
2446643.512 310327.549  788.111 LOR-25
Surface 2 "Bottom"
2447742.68  310149.458  740 TF-11-05
2447696.546 310191.777  740 TF-11-02
2447758.734 310103.019  740 TF-11-07
2447722.759 310222.789  740 TF-11-01
2447777.953 310078.34   740 TF-11-10
2447731.22  310194.651  740 TF-11-03
2447756.872 310553.148  740 WIL-60
2447121.565 309795.801  740 WIL-68
```

2447767.531	310589.97	740	WIL-59
2447873.211	309600.034	740	P-03-02
2447785.755	310619.399	740	WIL-58
2447893.155	309672.589	740	P-03-01
2447281.584	309687.898	740	WIL-66
2447318.905	309717.207	740	WIL-67
2446895.633	309811.408	740	WIL-71
2446937.055	309815.094	740	WIL-70
2447096.461	309770.247	740	WIL-69
2447664.092	310635.827	740	WIL-53
2447252.219	309732.996	740	WIL-65
2447048.321	309784.881	740	WIL-72
2447706.787	310119.927	740	TF-11-06
2447726.446	310072.929	740	TF-11-09
2446785.859	310717.156	740	LOR-35
2447682.167	310671.867	740	WIL-54
2447751.611	310448.289	740	WIL-62
2449761.494	309614.794	740	TF-03-10
2447650.319	310554.047	740	WIL-55
2447032.819	309742.185	740	WIL-73
2447589.432	310527.067	740	WIL-40
2447481.707	310369.504	740	WIL-36
2447453.392	310290.666	740	WIL-34
2447032.52	309968.117	740	WIL-17
2448115.471	309507.022	740	P-03-06
2447597.622	310575.126	740	WIL-51
2447616.927	310468.932	740	WIL-64
2447091.815	309977.165	740	WIL-18
2447443.715	310334.832	740	WIL-33
2447584.429	310415.275	740	WIL-37
2448117.2	309584.172	740	P-03-05
2448002.862	309480.231	740	P-03-04
2446678.778	310771.007	740	LOR-33
2447776.968	310189.774	740	TF-11-04
2447138.389	310453.977	740	WIL-05
2448235.409	309561.75	740	P-03-08
2449696.033	309627.496	740	TF-03-07
2446627.747	310772.261	740	LOR-32
2448228.89	309502.423	740	P-03-09
2446946.578	310678.781	740	LOR-03
2447612.927	309534.511	740	TF-12-05
2446970.606	309978.32	740	WIL-16
2447648.352	309542.994	740	TF-12-07
2448104.506	310604.818	740	TF-07-10
2449537.201	310623.423	740	TF-05-07
2446565.676	310779.459	740	LOR-18
2448154.285	310608.564	740	TF-07-07
2447444.964	310482.483	740	WIL-39
2447590.958	309558.045	740	TF-12-02
2448140.619	310662.398	740	TF-07-09
2446947.957	310561.926	740	LOR-13
2447513.562	310278.396	740	WIL-35
2447996.487	309594.067	740	P-03-03
2447711.866	310585.081	740	WIL-57
2446955.831	310215.752	740	WIL-10
2447352.964	310507.65	740	WIL-43
2446728.121	310656.546	740	LOR-08
2447109.983	310289.823	740	WIL-24
2446921.355	310763.425	740	LOR-01
2449708.299	309585.394	740	TF-03-09
2447482.268	310434.131	740	WIL-38
2447625.239	309578.547	740	TF-12-03
2447433.68	310472.897	740	WIL-49
2446825.28	310674.835	740	LOR-07
2447659.817	309574.514	740	TF-12-04
2446948.055	310181.68	740	WIL-11
2447169.563	310241.085	740	WIL-23
2447654.54	309609.122	740	TF-12-01
2447610.795	310643.819	740	WIL-52
2449539.842	310560.41	740	TF-05-08
2447638.611	310510.047	740	WIL-41
2449272.031	309995.311	740	TF-08-09
2446646.576	310700.646	740	LOR-34
2448216.544	309655.356	740	P-03-07
2449652.836	309632.924	740	TF-03-05
2448186.086	310697.214	740	TF-07-08
2446825.173	310759.47	740	LOR-05
2446913.87	310146.047	740	WIL-12
2449564.107	310637.623	740	TF-05-10
2446869.481	310045.617	740	WIL-14
2447375.689	310409.04	740	WIL-29
2447694.944	310004.18	740	WIL-P1-01
2447654.147	309502.983	740	TF-12-10
2447282.462	310264.308	740	WIL-31
2447273.739	310352.885	740	WIL-27
2449571.202	310585.414	740	TF-05-09
2447418.825	310543.052	740	WIL-30
2446751.448	310762.021	740	LOR-12
2446646.415	310337.741	740	LOR-25A
2446920.467	310013.691	740	WIL-15
2447594.94	309515.641	740	TF-12-06
2446668.576	310458.889	740	LOR-30
2447446.082	310618.401	740	WIL-45
2447044.157	310311.125	740	WIL-08
2446815.77	310830.037	740	LOR-06
2447569.846	309832.846	740	WIL-P2-03
2447349.566	310368.679	740	WIL-28
2447025.36	310363.235	740	WIL-25
2447611.566	309770.482	740	WIL-P2-04
2446683.141	310870.26	740	LOR-15
2447612.887	309495.37	740	TF-12-09
2447154.859	310099.07	740	WIL-21

```
2446876.427 310093.162  740 WIL-13
2446761.692 310839.185  740 LOR-14
2447495.239 310597.871  740 WIL-46
2446825.643 310477.594  740 LOR-11
2449667.169 309699.224  740 TF-03-04
2447151.884 310048.513  740 WIL-20
2446734.113 310451.175  740 LOR-29
2446727.28  310572.316  740 LOR-09
2447406.588 310372.163  740 WIL-32
2447005.124 310274.81   740 WIL-09A
2447573.86  309499.632  740 TF-12-08
2447543.734 310599.238  740 WIL-47
2447567.442 310652.069  740 WIL-48
2446760.881 310365.59   740 LOR-27
2446575.823 310531.904  740 LOR-21
2447159.974 309974.824  740 WIL-19
2446821.979 310559.633  740 LOR-10
2449644.077 309587.3    740 TF-03-06
2447017.554 310662.518  740 LOR-04
2449497.44  310596.589  740 TF-05-05
2446587.046 310682.277  740 LOR-19
2447663.423 309856.006  740 WIL-P2-02
2448789.248 310252.764  740 P-04-01
2447013.429 310749.079  740 LOR-02
2446574.368 310447.911  740 LOR-22
2448785.03  309540.084  740 TF-09-09
2449187.01  310119.442  740 TF-08-01
2448201.885 310616.565  740 TF-07-05
2448778.715 310569.445  740 TF-06-05
2447512.883 310535.233  740 WIL-50
2449485.786 310562.695  740 TF-05-06
2446568.5   310613.769  740 LOR-20
2448813.456 309568.226  740 TF-09-07
2448317.917 309925.765  740 TF-10-09
2446804.413 310414.139  740 LOR-28
2448391.358 309921.771  740 TF-10-06
2448790.959 310168.101  740 P-04-03
2448769.037 310213.731  740 P-04-02
2449233.435 310046.093  740 TF-08-05
2447723.791 309866.774  740 WIL-P2-01
2447688.346 310508.379  740 WIL-56
2448319.104 309952.357  740 TF-10-07
2449621.488 309562.523  740 TF-03-08
2447202.826 310536.216  740 WIL-04
2448761.882 310481.101  740 TF-06-10
2446708.344 310301.379  740 LOR-26
2447205.878 310170.998  740 WIL-22
2449024.983 310175.384  740 P-04-06
2448793.611 310632.835  740 TF-06-02
2447194.188 310331.792  740 WIL-26
2448145.458 309891.448  740 TF-10-03
2448795.829 309706.976  740 TF-09-01
2447659.502 310100.698  740 TF-11-08
2446612.674 310885.096  740 LOR-16
2447142.591 310378.516  740 WIL-06
2448243.58  309965.418  740 TF-10-08
2448243.299 309816.678  740 TF-10-04
2447303.637 310545.738  740 WIL-44
2447105.008 310337.706  740 WIL-07
2448154.647 310040.177  740 TF-10-02
2448204.371 310099.857  740 TF-10-01
2448740.107 309556.771  740 TF-09-08
2449455.491 310659.55   740 TF-05-04
2448798.306 309603.061  740 TF-09-05
2446568.145 310857.159  740 LOR-17
2447570.28  309966.71   740 WIL-P1-02
2447243.61  310590.84   740 WIL-03A
2448792.882 309657.54   740 TF-09-03
2448772.112 309585.383  740 TF-09-06
2447243.61  310590.84   740 WIL-03
2448186.415 310557.91   740 TF-07-04
2448738.891 309660.904  740 TF-09-02
2448189.071 310652.395  740 TF-07-06
2448779.633 310518.325  740 TF-06-07
2446582.622 310345.217  740 LOR-24
2449591.975 309630.573  740 TF-03-02
2449446.896 310577.484  740 TF-05-02
2448224.305 310577.395  740 TF-07-03
2449207.361 310080.222  740 TF-08-03
2448442.603 310266.542  740 TF-13-01
2447006.457 310277.044  740 WIL-09
2449618.667 309656.945  740 TF-03-03
2448267.232 310552.921  740 TF-07-01
2448402.145 309828.871  740 TF-10-05
2446645.911 310383.212  740 LOR-31
2447321.025 310672.495  740 WIL-01
2449451.249 310614.238  740 TF-05-03
2447706.322 310428.054  740 WIL-63
2448252.266 310620.985  740 TF-07-02
2448462.676 310237.875  740 TF-13-02
2446643.512 310327.549  740 LOR-25
2447201.406 309770.65   740 WIL-XRF-36
2447964.226 309561.007  740 P3-XRF-01
2447391.084 309737.219  740 CR-XRF-107
2447241.433 309657.966  740 CR-XRF-101
2447384.338 309782.234  740 CR-XRF-104
2447426.006 309769.691  740 CR-XRF-102
2447397.876 309718.402  740 CR-XRF-108
2447936.971 309548.375  740 P3-XRF-03
2447377.507 309782.08   740 CR-XRF-105
2447242.734 309664.642  740 CR-XRF-100
2447879.086 309563.677  740 P3-XRF-07
```

```
2447426.287 309758.987  740 CR-XRF-103
2447459.286 309871.642  740 WIL-XRF-58
2447372.155 309785.623  740 CR-XRF-106
2447941.698 309527.55   740 P3-XRF-05
2447941.291 309556.788  740 P3-XRF-02
2447232.409 309825.743  740 WIL-XRF-38
2447295.114 309766.885  740 WIL-XRF-32
2447968.853 309515.641  740 P3-XRF-06
2447841.45  309511.338  740 P3-XRF-09
2447408.439 309994.124  740 WIL-XRF-53
2447938.31  309544.491  740 P3-XRF-04
2447337.1   309761.035  740 WIL-XRF-31
2447342.355 310020.697  740 WIL-XRF-46
2447851.372 309527.709  740 P3-XRF-08
2447338.014 309854.824  740 WIL-XRF-29
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447250.76  309719.591  740 TF-34-01
2447329.368 309721.881  740 WIL-XRF-33
2447175.073 309872.145  740 WIL-XRF-39
2447379.521 309917.036  740 WIL-XRF-55
2447227.73  309774.481  740 WIL-XRF-37
2447196.529 310009.13   740 WIL-XRF-43
2447370.225 309871.739  740 WIL-XRF-56
2447223.87  309906.044  740 WIL-XRF-41
2447354.98  309894.525  740 WIL-XRF-28
2447654.54  309609.122  740 TF-12-01
2447199.544 309915.837  740 WIL-XRF-40
2447275.655 309769.542  740 WIL-XRF-18
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447275.97  309771.133  740 AA-GW-03
2447271.622 309784.726  740 WIL-XRF-19
2447303.698 309676.473  740 WIL-XRF-34
2447254.234 309781.378  740 WIL-XRF-20
2447296.217 309844.836  740 WIL-XRF-13
2447315.836 309843.704  740 WIL-XRF-14
2447159.03  310023.006  740 WIL-XRF-42
2447302.711 309865.198  740 WIL-XRF-17
2447480.939 309933.252  740 WIL-XRF-57
2447285.362 309892.172  740 WIL-XRF-11
2447271.765 309868.468  740 WIL-XRF-07
2447265.995 309854.528  740 WIL-XRF-05
2447277.548 309852.315  740 WIL-XRF-06
2447277.548 309852.315  740 WIL-XRF-06
2447277.548 309852.315  740 WIL-XRF-06
2447277.548 309852.315  740 WIL-XRF-06
2447327.64  309880.577  740 WIL-XRF-15
2447612.927 309534.511  740 TF-12-05
2447278.809 309903.418  740 WIL-XRF-10
2447289.455 309868.042  740 WIL-XRF-12
2447257.048 309867.225  740 WIL-XRF-04
2447268.284 309890.937  740 WIL-XRF-08
2447306.198 310105.674  740 WIL-XRF-48
2447301.539 309891.534  740 WIL-XRF-16
2447361.465 309932.854  740 WIL-XRF-47
2447249.531 309889.107  740 WIL-XRF-03
2447250.354 309896.073  740 WIL-AA-01
2447250.354 309896.073  740 WIL-AA-01
2447250.354 309896.073  740 WIL-AA-01
2447250.354 309896.073  740 WIL-AA-01
2447250.354 309896.073  740 WIL-AA-01
2447250.354 309896.073  740 WIL-AA-01
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447243.223 309908.476  740 WIL-AA-11
2447241.014 309903.76   740 WIL-XRF-02
2447241.014 309903.76   740 WIL-XRF-02
2447241.014 309903.76   740 WIL-XRF-02
2447241.014 309903.76   740 WIL-XRF-02
2447241.014 309903.76   740 WIL-XRF-02
2447241.014 309903.76   740 WIL-XRF-02
2447237.982 309909.608  740 WIL-XRF-01
2446869.481 310045.617  740 WIL-14
2447594.94  309515.641  740 TF-12-06
2447359.488 310015.808  740 WIL-XRF-50
2447305.852 309923.806  740 WIL-XRF-62
2447259.714 309908.599  740 WIL-XRF-09
2447390.953 310002.768  740 WIL-XRF-52
2447377.82  309928.914  740 WIL-XRF-54
2447135.09  309930.138  740 WIL-XRF-25
2447261.091 309943.091  740 WIL-XRF-60
2447300.95  309952.615  740 WIL-XRF-63
2447238.31  309972.605  740 WIL-XRF-59
2447278.08  309937.313  740 WIL-XRF-61
```

```
2447203.619 309730.062  740 WIL-XRF-35
2447277.498 309978.686  740 WIL-XRF-64
2447314.693 310002.297  740 WIL-XRF-72
2447221.389 309987.84   740 WIL-XRF-22
2447145.199 309972.678  740 WIL-XRF-24
2447343.05  309959.498  740 WIL-XRF-73
2447310.573 310084.202  740 WIL-XRF-45
2447006.698 309958.954  740 WIL-XRF-26
2447267.329 310002.31   740 WIL-XRF-74
2447240.268 310003.276  740 WIL-XRF-23
2447295.861 310008.223  740 WIL-XRF-75
2447000.51  310269.638  740 WIL-XRF2-24
2447267.353 310028.681  740 WIL-XRF-65
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447220.042 310007.022  740 WIL-AA-10
2447219.673 310007.331  740 WIL-XRF-21
2447341.286 310110.474  740 WIL-XRF-49
2447216.952 310037.591  740 WIL-XRF-67
2447295.402 310038.503  740 WIL-XRF-71
2447151.884 310048.513  740 WIL-20
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2446646.415 310337.741  740 LOR-25A
2447368.945 309983.173  740 WIL-XRF-51
2447063.696 310321.998  740 WIL-XRF2-25
2447283.268 310077.287  740 WIL-XRF-70
2447731.22  310194.651  740 TF-11-03
2447239.459 310050.417  740 WIL-XRF-66
2447742.68  310149.458  740 TF-11-05
2447249.886 310076.312  740 WIL-XRF-69
2447204.987 310078.37   740 WIL-XRF-68
2447317.909 309795.204  740 WIL-XRF-30
2447082.815 310333.125  740 WIL-XRF2-23
2447092.708 310342.286  740 WIL-XRF2-13
2447036.848 310366.949  740 WIL-XRF2-07
2447261.614 310110.438  740 WIL-XRF-44
2447638.611 310510.047  740 WIL-41
2446565.676 310779.459  740 LOR-18
2446565.676 310779.459  740 LOR-18
2446565.676 310779.459  740 LOR-18
2446565.676 310779.459  740 LOR-18
2446565.676 310779.459  740 LOR-18
2446565.676 310779.459  740 LOR-18
2447114.433 310357.276  740 WIL-XRF2-14
2447197.14  310125.583  740 WIL-XRF-27
2447059.917 310344.235  740 WIL-XRF2-09
2447513.562 310278.396  740 WIL-35
2447025.36  310363.235  740 WIL-25
2447375.689 310409.04   740 WIL-29
2447023.107 310370.73   740 WIL-XRF2-06
2447138.389 310453.977  740 WIL-05
2447159.221 310524.814  740 WIL-XRF2-21
2447114.137 310419.388  740 WIL-XRF2-16
2447156.525 310519.293  740 WIL-XRF2-22
2447027.893 310376.618  740 WIL-XRF2-08
2447127.814 310473.596  740 WIL-XRF2-19
2447418.825 310543.052  740 WIL-30
2447107.7   310449.342  740 WIL-XRF2-17
2447128.372 310383.535  740 WIL-XRF2-15
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2446751.448 310762.021  740 LOR-12
2447118.651 310443.464  740 WIL-XRF2-18
2446815.77  310830.037  740 LOR-06
2446815.77  310830.037  740 LOR-06
2446815.77  310830.037  740 LOR-06
2446815.77  310830.037  740 LOR-06
2446815.77  310830.037  740 LOR-06
2446815.77  310830.037  740 LOR-06
2446727.28  310572.316  740 LOR-09
2446727.28  310572.316  740 LOR-09
2446727.28  310572.316  740 LOR-09
2446727.28  310572.316  740 LOR-09
2446727.28  310572.316  740 LOR-09
2447027.378 310388.285  740 WIL-XRF2-05
2449229.821 309964.828  740 TF-08-08
2449229.821 309964.828  740 TF-08-08
2449229.821 309964.828  740 TF-08-08
2449229.821 309964.828  740 TF-08-08
2449229.821 309964.828  740 TF-08-08
2449229.821 309964.828  740 TF-08-08
```

```
2449229.821 309964.828  740 TF-08-08
2449225.707 310011.097  740 TF-08-06
2449225.707 310011.097  740 TF-08-06
2449225.707 310011.097  740 TF-08-06
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449272.031 309995.311  740 TF-08-09
2449312.543 310039.142  740 TF-08-10
2449312.543 310039.142  740 TF-08-10
2449312.543 310039.142  740 TF-08-10
2449312.543 310039.142  740 TF-08-10
2449312.543 310039.142  740 TF-08-10
2449312.543 310039.142  740 TF-08-10
2449207.361 310080.222  740 TF-08-03
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449233.435 310046.093  740 TF-08-05
2449174.529 310050.864  740 TF-08-02
2449174.529 310050.864  740 TF-08-02
2449174.529 310050.864  740 TF-08-02
2449174.529 310050.864  740 TF-08-02
2449174.529 310050.864  740 TF-08-02
2449273.222 310036.08   740 TF-08-07
2449273.222 310036.08   740 TF-08-07
2449273.222 310036.08   740 TF-08-07
2449273.222 310036.08   740 TF-08-07
2449273.222 310036.08   740 TF-08-07
2449273.222 310036.08   740 TF-08-07
2448845.486 310144.575  740 P-04-04
2448963.474 310150.425  740 P-04-05
2448761.882 310481.101  740 TF-06-10
2448761.882 310481.101  740 TF-06-10
2448761.882 310481.101  740 TF-06-10
2448789.248 310252.764  740 P-04-01
2448789.248 310252.764  740 P-04-01
2448789.248 310252.764  740 P-04-01
2449187.01  310119.442  740 TF-08-01
2449187.01  310119.442  740 TF-08-01
2449187.01  310119.442  740 TF-08-01
2448793.611 310632.835  740 TF-06-02
2448793.611 310632.835  740 TF-06-02
2448793.611 310632.835  740 TF-06-02
2449251.862 310113.896  740 TF-08-04
2449251.862 310113.896  740 TF-08-04
2449251.862 310113.896  740 TF-08-04
2448712.801 310516.276  740 TF-06-09
2448712.801 310516.276  740 TF-06-09
2448712.801 310516.276  740 TF-06-09
2448712.801 310516.276  740 TF-06-09
2448712.801 310516.276  740 TF-06-09
2448698.835 310566.712  740 TF-06-08
2448698.835 310566.712  740 TF-06-08
2448698.835 310566.712  740 TF-06-08
2448698.835 310566.712  740 TF-06-08
2449024.983 310175.384  740 P-04-06
2449024.983 310175.384  740 P-04-06
2448738.095 310561.598  740 TF-06-06
2448738.095 310561.598  740 TF-06-06
2448779.633 310518.325  740 TF-06-07
2448778.715 310569.445  740 TF-06-05
2448778.715 310569.445  740 TF-06-05
2448778.715 310569.445  740 TF-06-05
2448803.548 310606.669  740 TF-06-03
2448803.548 310606.669  740 TF-06-03
2448803.548 310606.669  740 TF-06-03
2448844.144 310638.549  740 TF-06-01
2448869.538 310585.44   740 TF-06-04
2448869.538 310585.44   740 TF-06-04
```

```
# C Tech Data Tool generated APDV File from W:\PROJECTS\LOCKHEADMARTIN\WILCOX\MVS\DATA\FULL
ROST DATA-REDUCED.APDV (1/11/2016 3:56:21 PM)
# Reduced using gradient optimization with target of 30 samples per boring.  Auto generated
settings.
x y z @@Fluorescence Boring Elevation
Elevation Ft
6115 1 %RE
2446921.355 310763.425  807.721 2.56    LOR-01  807.721
2446921.355 310763.425  807.28804   4.21    LOR-01  807.721
2446921.355 310763.425  806.82556   4.88    LOR-01  807.721
2446921.355 310763.425  806.33684   3.64    LOR-01  807.721
2446921.355 310763.425  805.88748   3.18    LOR-01  807.721
2446921.355 310763.425  805.40532   3.17    LOR-01  807.721
2446921.355 310763.425  804.97236   3.23    LOR-01  807.721
2446921.355 310763.425  804.52628   3.62    LOR-01  807.721
2446921.355 310763.425  804.0966    2.37    LOR-01  807.721
2446921.355 310763.425  803.621 1.67    LOR-01  807.721
2446921.355 310763.425  803.11588   1.9 LOR-01  807.721
2446921.355 310763.425  802.65668   1.6 LOR-01  807.721
2446921.355 310763.425  802.20076   1.82    LOR-01  807.721
2446921.355 310763.425  801.75796   1.81    LOR-01  807.721
2446921.355 310763.425  801.31516   1.54    LOR-01  807.721
2446921.355 310763.425  800.8658    1.61    LOR-01  807.721
2446921.355 310763.425  800.37708   1.9 LOR-01  807.721
2446921.355 310763.425  799.89492   1.99    LOR-01  807.721
2446921.355 310763.425  799.42916   2.03    LOR-01  807.721
2446921.355 310763.425  798.98964   2.07    LOR-01  807.721
2446921.355 310763.425  798.5042    1.91    LOR-01  807.721
2446921.355 310763.425  798.0286    1.91    LOR-01  807.721
2446921.355 310763.425  797.53332   1.47    LOR-01  807.721
2446921.355 310763.425  797.07084   1.71    LOR-01  807.721
2446921.355 310763.425  796.59852   1.67    LOR-01  807.721
2446921.355 310763.425  796.13604   1.56    LOR-01  807.721
2446921.355 310763.425  795.69652   1.69    LOR-01  807.721
2446921.355 310763.425  795.26684   1.76    LOR-01  807.721
2446921.355 310763.425  794.82404   1.65    LOR-01  807.721
2446921.355 310763.425  794.39436   1.53    LOR-01  807.721
2446921.355 310763.425  793.92532   1.28    LOR-01  807.721
2446921.355 310763.425  793.46284   1.38    LOR-01  807.721
2446921.355 310763.425  793.15452   1.32    LOR-01  807.721
2447013.429 310749.079  809.271 2.43    LOR-02  809.271
2447013.429 310749.079  808.8282    2.39    LOR-02  809.271
2447013.429 310749.079  808.38212   1.68    LOR-02  809.271
2447013.429 310749.079  807.9262    1.55    LOR-02  809.271
2447013.429 310749.079  807.46044   1.51    LOR-02  809.271
2447013.429 310749.079  807.02092   1.42    LOR-02  809.271
2447013.429 310749.079  806.56828   1.75    LOR-02  809.271
2447013.429 310749.079  806.11892   1.62    LOR-02  809.271
2447013.429 310749.079  805.68596   1.5 LOR-02  809.271
2447013.429 310749.079  805.24972   1.64    LOR-02  809.271
2447013.429 310749.079  804.74788   1.73    LOR-02  809.271
2447013.429 310749.079  804.28868   1.38    LOR-02  809.271
2447013.429 310749.079  803.85572   1.72    LOR-02  809.271
2447013.429 310749.079  803.35388   3.22    LOR-02  809.271
2447013.429 310749.079  803.2522    2.82    LOR-02  809.271
2446946.578 310678.781  806.332 2.91    LOR-03  806.332
2446946.578 310678.781  805.89904   7.75    LOR-03  806.332
2446946.578 310678.781  805.44968   3.76    LOR-03  806.332
2446946.578 310678.781  804.96424   2.33    LOR-03  806.332
2446946.578 310678.781  804.48208   2.67    LOR-03  806.332
2446946.578 310678.781  804.04912   2.71    LOR-03  806.332
2446946.578 310678.781  803.58008   2.54    LOR-03  806.332
2446946.578 310678.781  803.0848    2.65    LOR-03  806.332
2446946.578 310678.781  802.63216   2.55    LOR-03  806.332
```

2446946.578	310678.781	802.16312	2.55	LOR-03	806.332
2446946.578	310678.781	801.6744	2.46	LOR-03	806.332
2446946.578	310678.781	801.22176	2.47	LOR-03	806.332
2446946.578	310678.781	800.77568	2.45	LOR-03	806.332
2446946.578	310678.781	800.33616	2.39	LOR-03	806.332
2446946.578	310678.781	799.89992	2.62	LOR-03	806.332
2446946.578	310678.781	799.45712	2.4	LOR-03	806.332
2446946.578	310678.781	798.99464	2.12	LOR-03	806.332
2446946.578	310678.781	798.51576	2.24	LOR-03	806.332
2446946.578	310678.781	798.02376	2.34	LOR-03	806.332
2446946.578	310678.781	797.56128	2.51	LOR-03	806.332
2446946.578	310678.781	797.11192	2.25	LOR-03	806.332
2446946.578	310678.781	796.656	2.35	LOR-03	806.332
2446946.578	310678.781	796.21976	2.36	LOR-03	806.332
2446946.578	310678.781	795.754	2.38	LOR-03	806.332
2446946.578	310678.781	795.27512	2.64	LOR-03	806.332
2446946.578	310678.781	794.81592	2.5	LOR-03	806.332
2446946.578	310678.781	794.33376	2.15	LOR-03	806.332
2446946.578	310678.781	793.86144	2.46	LOR-03	806.332
2446946.578	310678.781	793.41208	2.48	LOR-03	806.332
2446946.578	310678.781	792.97912	2.59	LOR-03	806.332
2446946.578	310678.781	792.54616	2.27	LOR-03	806.332
2446946.578	310678.781	792.1132	2.33	LOR-03	806.332
2446946.578	310678.781	791.64744	2.39	LOR-03	806.332
2446946.578	310678.781	791.19808	2.59	LOR-03	806.332
2446946.578	310678.781	790.76512	2.37	LOR-03	806.332
2446946.578	310678.781	790.29936	2.24	LOR-03	806.332
2446946.578	310678.781	789.83688	2.28	LOR-03	806.332
2446946.578	310678.781	789.40392	2.66	LOR-03	806.332
2446946.578	310678.781	789.11528	2.75	LOR-03	806.332
2447017.554	310662.518	805.629	3.76	LOR-04	805.629
2447017.554	310662.518	805.16652	5.85	LOR-04	805.629
2447017.554	310662.518	804.727	3.53	LOR-04	805.629
2447017.554	310662.518	804.25796	3.07	LOR-04	805.629
2447017.554	310662.518	803.78564	3.24	LOR-04	805.629
2447017.554	310662.518	803.31004	3.25	LOR-04	805.629
2447017.554	310662.518	802.83116	3.2	LOR-04	805.629
2447017.554	310662.518	802.40148	3.35	LOR-04	805.629
2447017.554	310662.518	801.92916	3.38	LOR-04	805.629
2447017.554	310662.518	801.47324	3.19	LOR-04	805.629
2447017.554	310662.518	801.01732	2.87	LOR-04	805.629
2447017.554	310662.518	800.55156	3.14	LOR-04	805.629
2447017.554	310662.518	800.09564	3.26	LOR-04	805.629
2447017.554	310662.518	799.6266	3.53	LOR-04	805.629
2447017.554	310662.518	799.14116	3.73	LOR-04	805.629
2447017.554	310662.518	798.6918	4.82	LOR-04	805.629
2447017.554	310662.518	798.48516	13.26	LOR-04	805.629
2446825.173	310759.47	801.033	2.81	LOR-05	801.033
2446825.173	310759.47	800.58036	14.59	LOR-05	801.033
2446825.173	310759.47	800.1146	3.36	LOR-05	801.033
2446825.173	310759.47	799.68164	2.01	LOR-05	801.033
2446825.173	310759.47	799.21916	1.93	LOR-05	801.033
2446825.173	310759.47	798.73372	1.91	LOR-05	801.033
2446825.173	310759.47	798.27124	1.76	LOR-05	801.033
2446825.173	310759.47	797.8022	1.92	LOR-05	801.033
2446825.173	310759.47	797.33972	2.12	LOR-05	801.033
2446825.173	310759.47	796.85756	1.61	LOR-05	801.033
2446825.173	310759.47	796.38196	1.89	LOR-05	801.033
2446825.173	310759.47	795.9162	1.63	LOR-05	801.033
2446825.173	310759.47	795.457	1.91	LOR-05	801.033
2446825.173	310759.47	795.00764	2.63	LOR-05	801.033
2446825.173	310759.47	794.5058	2.83	LOR-05	801.033
2446825.173	310759.47	794.04988	4.75	LOR-05	801.033
2446825.173	310759.47	793.61036	2.38	LOR-05	801.033

2446825.173	310759.47	793.15444	6.63	LOR-05	801.033
2446825.173	310759.47	792.70508	35.19	LOR-05	801.033
2446825.173	310759.47	792.26884	36.34	LOR-05	801.033
2446825.173	310759.47	791.78668	16.78	LOR-05	801.033
2446825.173	310759.47	791.34716	11.11	LOR-05	801.033
2446825.173	310759.47	790.91748	14.06	LOR-05	801.033
2446825.173	310759.47	790.47468	45.04	LOR-05	801.033
2446825.173	310759.47	790.02204	36.78	LOR-05	801.033
2446825.173	310759.47	789.5694	67.42	LOR-05	801.033
2446825.173	310759.47	789.1102	72.83	LOR-05	801.033
2446825.173	310759.47	788.68052	22.85	LOR-05	801.033
2446825.173	310759.47	788.61164	18.62	LOR-05	801.033
2446815.77	310830.037	802.995	5.08	LOR-06	802.995
2446815.77	310830.037	802.56532	20.44	LOR-06	802.995
2446815.77	310830.037	802.10284	5.56	LOR-06	802.995
2446815.77	310830.037	801.62396	3.61	LOR-06	802.995
2446815.77	310830.037	801.18444	3.38	LOR-06	802.995
2446815.77	310830.037	800.66292	3.03	LOR-06	802.995
2446815.77	310830.037	800.17748	4.14	LOR-06	802.995
2446815.77	310830.037	799.7478	5.05	LOR-06	802.995
2446815.77	310830.037	799.31484	3.99	LOR-06	802.995
2446815.77	310830.037	799.059	3.88	LOR-06	802.995
2446815.77	310830.037	798.61292	11.58	LOR-06	802.995
2446815.77	310830.037	798.21276	122.03	LOR-06	802.995
2446815.77	310830.037	797.75356	135.91	LOR-06	802.995
2446815.77	310830.037	797.29108	104.72	LOR-06	802.995
2446815.77	310830.037	796.84172	164.14	LOR-06	802.995
2446815.77	310830.037	796.39564	177.39	LOR-06	802.995
2446815.77	310830.037	795.95612	128.15	LOR-06	802.995
2446815.77	310830.037	795.65436	199.22	LOR-06	802.995
2446815.77	310830.037	795.19844	122.52	LOR-06	802.995
2446815.77	310830.037	794.6966	46.86	LOR-06	802.995
2446815.77	310830.037	794.23412	35.57	LOR-06	802.995
2446815.77	310830.037	793.77164	12.1	LOR-06	802.995
2446815.77	310830.037	793.3354	3.85	LOR-06	802.995
2446815.77	310830.037	792.87292	2.84	LOR-06	802.995
2446815.77	310830.037	792.43996	3.45	LOR-06	802.995
2446815.77	310830.037	792.23988	3.95	LOR-06	802.995
2446825.28	310674.835	804.0588	105.11	LOR-07	805.994
2446825.28	310674.835	803.68816	0.84	LOR-07	805.994
2446825.28	310674.835	803.2552	0.99	LOR-07	805.994
2446825.28	310674.835	802.80912	1.67	LOR-07	805.994
2446825.28	310674.835	802.3532	0.97	LOR-07	805.994
2446825.28	310674.835	801.90712	1.14	LOR-07	805.994
2446825.28	310674.835	801.42496	1.17	LOR-07	805.994
2446825.28	310674.835	800.91984	1.87	LOR-07	805.994
2446825.28	310674.835	800.49016	2.2	LOR-07	805.994
2446825.28	310674.835	799.99816	2.27	LOR-07	805.994
2446825.28	310674.835	799.53896	2.69	LOR-07	805.994
2446825.28	310674.835	799.03384	2.47	LOR-07	805.994
2446825.28	310674.835	798.532	1.86	LOR-07	805.994
2446825.28	310674.835	798.09248	1.61	LOR-07	805.994
2446825.28	310674.835	797.63	1.25	LOR-07	805.994
2446825.28	310674.835	797.17408	1.95	LOR-07	805.994
2446825.28	310674.835	796.7116	4.67	LOR-07	805.994
2446825.28	310674.835	796.22616	3.09	LOR-07	805.994
2446825.28	310674.835	795.73088	1.51	LOR-07	805.994
2446825.28	310674.835	795.25856	2.08	LOR-07	805.994
2446825.28	310674.835	794.80264	1.98	LOR-07	805.994
2446825.28	310674.835	794.35656	2.14	LOR-07	805.994
2446825.28	310674.835	793.89736	1.99	LOR-07	805.994
2446825.28	310674.835	793.4152	2.59	LOR-07	805.994
2446825.28	310674.835	792.98552	2.35	LOR-07	805.994
2446825.28	310674.835	792.50336	3.46	LOR-07	805.994

2446825.28	310674.835	792.09008	12.42	LOR-07	805.994
2446728.121	310656.546	803.129	3.37	LOR-08	803.129
2446728.121	310656.546	802.66324	2.79	LOR-08	803.129
2446728.121	310656.546	802.23356	2.23	LOR-08	803.129
2446728.121	310656.546	801.76124	2.32	LOR-08	803.129
2446728.121	310656.546	801.25612	2.17	LOR-08	803.129
2446728.121	310656.546	800.82644	2.38	LOR-08	803.129
2446728.121	310656.546	800.33772	2.11	LOR-08	803.129
2446728.121	310656.546	799.86868	2.08	LOR-08	803.129
2446728.121	310656.546	799.43244	1.96	LOR-08	803.129
2446728.121	310656.546	798.9962	2.61	LOR-08	803.129
2446728.121	310656.546	798.54684	2.15	LOR-08	803.129
2446728.121	310656.546	798.05812	2	LOR-08	803.129
2446728.121	310656.546	797.58908	3.35	LOR-08	803.129
2446728.121	310656.546	797.14956	2.23	LOR-08	803.129
2446728.121	310656.546	796.69364	3.23	LOR-08	803.129
2446728.121	310656.546	796.24428	2.4	LOR-08	803.129
2446728.121	310656.546	795.73588	2.14	LOR-08	803.129
2446728.121	310656.546	795.27012	2.92	LOR-08	803.129
2446728.121	310656.546	794.80764	5.46	LOR-08	803.129
2446728.121	310656.546	794.34844	2.96	LOR-08	803.129
2446728.121	310656.546	793.87284	5.61	LOR-08	803.129
2446728.121	310656.546	793.42348	28.42	LOR-08	803.129
2446728.121	310656.546	792.9938	22.87	LOR-08	803.129
2446728.121	310656.546	792.56412	36.28	LOR-08	803.129
2446728.121	310656.546	792.0918	43.51	LOR-08	803.129
2446728.121	310656.546	791.64572	42.31	LOR-08	803.129
2446728.121	310656.546	791.15372	63.26	LOR-08	803.129
2446728.121	310656.546	790.71092	38.75	LOR-08	803.129
2446728.121	310656.546	790.26812	33.74	LOR-08	803.129
2446728.121	310656.546	789.8122	48.52	LOR-08	803.129
2446728.121	310656.546	789.37924	68.92	LOR-08	803.129
2446728.121	310656.546	788.92988	62.96	LOR-08	803.129
2446728.121	310656.546	788.48708	68.33	LOR-08	803.129
2446728.121	310656.546	788.35588	67.84	LOR-08	803.129
2446727.28	310572.316	803.347	3.18	LOR-09	803.347
2446727.28	310572.316	802.91732	2.21	LOR-09	803.347
2446727.28	310572.316	802.43844	2.63	LOR-09	803.347
2446727.28	310572.316	801.96612	2.24	LOR-09	803.347
2446727.28	310572.316	801.53316	2.65	LOR-09	803.347
2446727.28	310572.316	801.0674	1.59	LOR-09	803.347
2446727.28	310572.316	800.63772	1.21	LOR-09	803.347
2446727.28	310572.316	800.19492	2.12	LOR-09	803.347
2446727.28	310572.316	799.73572	2.03	LOR-09	803.347
2446727.28	310572.316	799.493	0.52	LOR-09	803.347
2446727.28	310572.316	799.04364	2.16	LOR-09	803.347
2446727.28	310572.316	798.58444	2.04	LOR-09	803.347
2446727.28	310572.316	798.07932	2.08	LOR-09	803.347
2446727.28	310572.316	797.64964	2.25	LOR-09	803.347
2446727.28	310572.316	797.19372	2.45	LOR-09	803.347
2446727.28	310572.316	796.76404	2.48	LOR-09	803.347
2446727.28	310572.316	796.31468	2.73	LOR-09	803.347
2446727.28	310572.316	795.88172	4.39	LOR-09	803.347
2446727.28	310572.316	795.41924	5.36	LOR-09	803.347
2446727.28	310572.316	794.9666	12.08	LOR-09	803.347
2446727.28	310572.316	794.89444	26.45	LOR-09	803.347
2446821.979	310559.633	804.968	0.12	LOR-10	804.968
2446821.979	310559.633	804.9024	1.14	LOR-10	804.968
2446821.979	310559.633	804.6728	0.09	LOR-10	804.968
2446821.979	310559.633	804.3448	0.02	LOR-10	804.968
2446821.979	310559.633	804.05944	0.47	LOR-10	804.968
2446821.979	310559.633	804.02008	0	LOR-10	804.968
2446821.979	310559.633	803.95448	0.24	LOR-10	804.968
2446821.979	310559.633	803.88888	0.02	LOR-10	804.968

```
2446821.979 310559.633  803.45264   0.08    LOR-10  804.968
2446821.979 310559.633  803.41328   0.6 LOR-10  804.968
2446821.979 310559.633  803.0492    0.01    LOR-10  804.968
2446821.979 310559.633  803.00984   0.32    LOR-10  804.968
2446821.979 310559.633  802.95408   0.17    LOR-10  804.968
2446821.979 310559.633  802.89504   0.06    LOR-10  804.968
2446821.979 310559.633  802.54736   0.01    LOR-10  804.968
2446821.979 310559.633  802.08488   -0.28   LOR-10  804.968
2446821.979 310559.633  802.02256   0   LOR-10  804.968
2446821.979 310559.633  801.81592   0.01    LOR-10  804.968
2446821.979 310559.633  801.36328   -0.35   LOR-10  804.968
2446821.979 310559.633  800.90736   -0.5    LOR-10  804.968
2446821.979 310559.633  800.75976   9.74    LOR-10  804.968
2446821.979 310559.633  800.30384   11.5    LOR-10  804.968
2446821.979 310559.633  799.85776   14.06   LOR-10  804.968
2446821.979 310559.633  799.38544   14.24   LOR-10  804.968
2446821.979 310559.633  798.91968   2.6 LOR-10  804.968
2446821.979 310559.633  798.4408    7.24    LOR-10  804.968
2446821.979 310559.633  798.00456   9.96    LOR-10  804.968
2446821.979 310559.633  797.64048   20.29   LOR-10  804.968
2446825.643 310477.594  804.878 0.28    LOR-11  804.878
2446825.643 310477.594  804.74024   3.03    LOR-11  804.878
2446825.643 310477.594  804.3696    0.02    LOR-11  804.878
2446825.643 310477.594  803.894 -0.75   LOR-11  804.878
2446825.643 310477.594  803.44136   -0.67   LOR-11  804.878
2446825.643 310477.594  802.93624   -0.78   LOR-11  804.878
2446825.643 310477.594  802.61808   2.54    LOR-11  804.878
2446825.643 310477.594  802.16216   2.47    LOR-11  804.878
2446825.643 310477.594  801.7128    2.47    LOR-11  804.878
2446825.643 310477.594  801.24376   2.68    LOR-11  804.878
2446825.643 310477.594  800.73208   2.42    LOR-11  804.878
2446825.643 310477.594  800.24008   2.55    LOR-11  804.878
2446825.643 310477.594  799.71528   2.73    LOR-11  804.878
2446825.643 310477.594  799.2528    2.84    LOR-11  804.878
2446825.643 310477.594  798.76408   2.35    LOR-11  804.878
2446825.643 310477.594  798.25568   3.82    LOR-11  804.878
2446825.643 310477.594  797.76696   3.17    LOR-11  804.878
2446825.643 310477.594  797.29792   4.1 LOR-11  804.878
2446825.643 310477.594  796.8256    4.72    LOR-11  804.878
2446825.643 310477.594  796.35656   5.12    LOR-11  804.878
2446825.643 310477.594  796.0384    6.48    LOR-11  804.878
2446751.448 310762.021  801.59  2.94    LOR-12  801.59
2446751.448 310762.021  801.1472    3.42    LOR-12  801.59
2446751.448 310762.021  800.70768   3.31    LOR-12  801.59
2446751.448 310762.021  800.26816   3.05    LOR-12  801.59
2446751.448 310762.021  799.83192   3.09    LOR-12  801.59
2446751.448 310762.021  799.37272   3.22    LOR-12  801.59
2446751.448 310762.021  798.89056   3.45    LOR-12  801.59
2446751.448 310762.021  798.43792   3.05    LOR-12  801.59
2446751.448 310762.021  797.9492    5   LOR-12  801.59
2446751.448 310762.021  797.46376   3.56    LOR-12  801.59
2446751.448 310762.021  796.97504   2.87    LOR-12  801.59
2446751.448 310762.021  796.53224   3.01    LOR-12  801.59
2446751.448 310762.021  796.07632   3.49    LOR-12  801.59
2446751.448 310762.021  795.93856   3.08    LOR-12  801.59
2446751.448 310762.021  795.4728    9.68    LOR-12  801.59
2446751.448 310762.021  795.03656   45.22   LOR-12  801.59
2446751.448 310762.021  794.58064   62  LOR-12  801.59
2446751.448 310762.021  794.10504   41.02   LOR-12  801.59
2446751.448 310762.021  793.636 44.55   LOR-12  801.59
2446751.448 310762.021  793.50152   83.1    LOR-12  801.59
2446751.448 310762.021  793.04888   39.5    LOR-12  801.59
2446751.448 310762.021  792.5864    13.9    LOR-12  801.59
2446751.448 310762.021  792.25184   5.92    LOR-12  801.59
```

```
2446751.448 310762.021  791.77296   14.24   LOR-12  801.59
2446751.448 310762.021  791.32688   39.48   LOR-12  801.59
2446751.448 310762.021  791.094 528.22  LOR-12  801.59
2446751.448 310762.021  790.63808   464.67  LOR-12  801.59
2446751.448 310762.021  790.22152   125.69  LOR-12  801.59
2446947.957 310561.926  807.46  1.12    LOR-13  807.46
2446947.957 310561.926  807.00408   0.68    LOR-13  807.46
2446947.957 310561.926  806.54488   0.6 LOR-13  807.46
2446947.957 310561.926  806.10864   0.49    LOR-13  807.46
2446947.957 310561.926  805.61992   0.56    LOR-13  807.46
2446947.957 310561.926  805.11808   0.62    LOR-13  807.46
2446947.957 310561.926  804.6884    0.52    LOR-13  807.46
2446947.957 310561.926  804.22264   0.45    LOR-13  807.46
2446947.957 310561.926  803.76344   0.44    LOR-13  807.46
2446947.957 310561.926  803.29112   0.5 LOR-13  807.46
2446947.957 310561.926  802.82536   0.46    LOR-13  807.46
2446947.957 310561.926  802.3596    0.48    LOR-13  807.46
2446947.957 310561.926  801.90696   0.49    LOR-13  807.46
2446947.957 310561.926  801.40512   0.39    LOR-13  807.46
2446947.957 310561.926  800.97216   0.44    LOR-13  807.46
2446947.957 310561.926  800.4408    0.47    LOR-13  807.46
2446947.957 310561.926  799.97504   0.41    LOR-13  807.46
2446947.957 310561.926  799.49616   0.46    LOR-13  807.46
2446947.957 310561.926  799.03368   0.48    LOR-13  807.46
2446947.957 310561.926  798.60072   0.45    LOR-13  807.46
2446947.957 310561.926  798.11528   0.49    LOR-13  807.46
2446947.957 310561.926  797.68232   0.41    LOR-13  807.46
2446947.957 310561.926  797.24936   0.44    LOR-13  807.46
2446947.957 310561.926  796.88528   0.37    LOR-13  807.46
2446947.957 310561.926  796.43592   2.09    LOR-13  807.46
2446947.957 310561.926  795.9964    2.88    LOR-13  807.46
2446947.957 310561.926  795.5536    1.22    LOR-13  807.46
2446947.957 310561.926  795.12064   5.24    LOR-13  807.46
2446947.957 310561.926  794.67456   3.34    LOR-13  807.46
2446947.957 310561.926  794.22192   2.07    LOR-13  807.46
2446947.957 310561.926  793.77584   11.03   LOR-13  807.46
2446947.957 310561.926  793.33304   3.12    LOR-13  807.46
2446947.957 310561.926  792.89024   11.49   LOR-13  807.46
2446947.957 310561.926  792.4212    18.04   LOR-13  807.46
2446947.957 310561.926  792.05056   23.53   LOR-13  807.46
2446761.692 310839.185  801.048 0.82    LOR-14  801.048
2446761.692 310839.185  801.01848   7.43    LOR-14  801.048
2446761.692 310839.185  800.51992   2.04    LOR-14  801.048
2446761.692 310839.185  800.07712   1.75    LOR-14  801.048
2446761.692 310839.185  799.62776   0.81    LOR-14  801.048
2446761.692 310839.185  799.18168   0.43    LOR-14  801.048
2446761.692 310839.185  798.73888   0.43    LOR-14  801.048
2446761.692 310839.185  798.28624   0.5 LOR-14  801.048
2446761.692 310839.185  797.82376   0.36    LOR-14  801.048
2446761.692 310839.185  797.3908    0.38    LOR-14  801.048
2446761.692 310839.185  796.97424   0.38    LOR-14  801.048
2446761.692 310839.185  796.51176   10.87   LOR-14  801.048
2446761.692 310839.185  796.08208   50.77   LOR-14  801.048
2446761.692 310839.185  795.78688   58.91   LOR-14  801.048
2446761.692 310839.185  795.3572    22.69   LOR-14  801.048
2446761.692 310839.185  794.898 5.45    LOR-14  801.048
2446761.692 310839.185  794.42896   2.37    LOR-14  801.048
2446761.692 310839.185  794.03208   0.27    LOR-14  801.048
2446761.692 310839.185  793.56304   0.29    LOR-14  801.048
2446761.692 310839.185  793.08416   0.33    LOR-14  801.048
2446761.692 310839.185  792.602 0.42    LOR-14  801.048
2446761.692 310839.185  792.17232   0.49    LOR-14  801.048
2446761.692 310839.185  791.99192   0.9 LOR-14  801.048
2446683.141 310870.26   800.752 6.12    LOR-15  800.752
```

```
2446683.141 310870.26   800.32232   8.94    LOR-15  800.752
2446683.141 310870.26   799.8828    5.87    LOR-15  800.752
2446683.141 310870.26   799.43672   0.56    LOR-15  800.752
2446683.141 310870.26   799.00376   -0.78   LOR-15  800.752
2446683.141 310870.26   798.56424   -1.96   LOR-15  800.752
2446683.141 310870.26   798.08864   -2.35   LOR-15  800.752
2446683.141 310870.26   797.60648   -2.14   LOR-15  800.752
2446683.141 310870.26   797.15384   -2.08   LOR-15  800.752
2446683.141 310870.26   796.6684    -2.07   LOR-15  800.752
2446683.141 310870.26   796.22232   -1.78   LOR-15  800.752
2446683.141 310870.26   795.76312   -2  LOR-15  800.752
2446683.141 310870.26   795.3072    -1.78   LOR-15  800.752
2446683.141 310870.26   794.83488   -1.71   LOR-15  800.752
2446683.141 310870.26   794.36584   -2.05   LOR-15  800.752
2446683.141 310870.26   793.92632   -1.9    LOR-15  800.752
2446683.141 310870.26   793.4376    -2.07   LOR-15  800.752
2446683.141 310870.26   792.91608   -1.96   LOR-15  800.752
2446683.141 310870.26   792.46344   -1.95   LOR-15  800.752
2446683.141 310870.26   791.98456   -1.79   LOR-15  800.752
2446683.141 310870.26   791.51224   -1.71   LOR-15  800.752
2446683.141 310870.26   791.0432    -1.68   LOR-15  800.752
2446683.141 310870.26   791.00384   -1.86   LOR-15  800.752
2446612.674 310885.096  795.055 0.25    LOR-16  795.055
2446612.674 310885.096  794.62532   -0.92   LOR-16  795.055
2446612.674 310885.096  794.17596   -0.96   LOR-16  795.055
2446612.674 310885.096  793.72988   -1.06   LOR-16  795.055
2446612.674 310885.096  793.28052   -1.08   LOR-16  795.055
2446612.674 310885.096  792.85084   -0.99   LOR-16  795.055
2446612.674 310885.096  792.40476   -1.07   LOR-16  795.055
2446612.674 310885.096  791.96524   -1.05   LOR-16  795.055
2446612.674 310885.096  791.85372   -1.2    LOR-16  795.055
2446568.145 310857.159  793.64776   0.22    LOR-17  793.92
2446568.145 310857.159  793.182 1.66    LOR-17  793.92
2446568.145 310857.159  792.7228    1.01    LOR-17  793.92
2446568.145 310857.159  792.25376   1.21    LOR-17  793.92
2446568.145 310857.159  791.81096   -1.7    LOR-17  793.92
2446568.145 310857.159  791.5748    -2.18   LOR-17  793.92
2446565.676 310779.459  792.882 -0.2    LOR-18  792.882
2446565.676 310779.459  792.41296   -0.51   LOR-18  792.882
2446565.676 310779.459  791.95704   -0.9    LOR-18  792.882
2446565.676 310779.459  791.488 2.75    LOR-18  792.882
2446565.676 310779.459  791.01568   2.06    LOR-18  792.882
2446565.676 310779.459  790.57944   1.28    LOR-18  792.882
2446565.676 310779.459  790.13336   82.67   LOR-18  792.882
2446565.676 310779.459  789.6512    61.22   LOR-18  792.882
2446565.676 310779.459  789.16248   68.15   LOR-18  792.882
2446565.676 310779.459  788.69344   88.68   LOR-18  792.882
2446565.676 310779.459  788.25392   92.4    LOR-18  792.882
2446565.676 310779.459  787.76848   162.55  LOR-18  792.882
2446565.676 310779.459  787.306 23.91   LOR-18  792.882
2446565.676 310779.459  786.85992   28.21   LOR-18  792.882
2446565.676 310779.459  786.34168   118.19  LOR-18  792.882
2446565.676 310779.459  785.85952   115.58  LOR-18  792.882
2446565.676 310779.459  785.34456   125.79  LOR-18  792.882
2446565.676 310779.459  784.83944   130.53  LOR-18  792.882
2446565.676 310779.459  784.38024   123.45  LOR-18  792.882
2446565.676 310779.459  783.95056   128.99  LOR-18  792.882
2446565.676 310779.459  783.5012    126.17  LOR-18  792.882
2446565.676 310779.459  783.0092    53.91   LOR-18  792.882
2446565.676 310779.459  782.54344   7.65    LOR-18  792.882
2446565.676 310779.459  782.06456   -0.16   LOR-18  792.882
2446565.676 310779.459  781.59552   1   LOR-18  792.882
2446565.676 310779.459  781.16256   -0.32   LOR-18  792.882
2446565.676 310779.459  780.7296    -1.14   LOR-18  792.882
```

```
2446565.676 310779.459  780.24416   -1.26   LOR-18  792.882
2446565.676 310779.459  779.78824   -1.14   LOR-18  792.882
2446565.676 310779.459  779.33888   -1.26   LOR-18  792.882
2446565.676 310779.459  778.88624   -1.17   LOR-18  792.882
2446565.676 310779.459  778.45  -1.23   LOR-18  792.882
2446565.676 310779.459  778.00392   -1.06   LOR-18  792.882
2446565.676 310779.459  777.54472   -1.1    LOR-18  792.882
2446565.676 310779.459  777.09208   -1.24   LOR-18  792.882
2446565.676 310779.459  776.88544   -1.39   LOR-18  792.882
2446587.046 310682.277  798.24  -0.05   LOR-19  798.24
2446587.046 310682.277  797.80376   5.97    LOR-19  798.24
2446587.046 310682.277  797.35112   -1.19   LOR-19  798.24
2446587.046 310682.277  796.88208   -1.14   LOR-19  798.24
2446587.046 310682.277  796.42944   -1.45   LOR-19  798.24
2446587.046 310682.277  795.97024   -1.9    LOR-19  798.24
2446587.046 310682.277  795.49792   -1.57   LOR-19  798.24
2446587.046 310682.277  795.03544   -1.37   LOR-19  798.24
2446587.046 310682.277  794.56312   -1.47   LOR-19  798.24
2446587.046 310682.277  794.13016   -1.86   LOR-19  798.24
2446587.046 310682.277  793.67752   -1.76   LOR-19  798.24
2446587.046 310682.277  793.24784   -1.56   LOR-19  798.24
2446587.046 310682.277  792.7624    0.91    LOR-19  798.24
2446587.046 310682.277  792.3196    88.95   LOR-19  798.24
2446587.046 310682.277  791.88336   51.16   LOR-19  798.24
2446587.046 310682.277  791.77512   58.18   LOR-19  798.24
2446568.5   310613.769  787.911 -0.02   LOR-20  787.911
2446568.5   310613.769  787.44196   -0.84   LOR-20  787.911
2446568.5   310613.769  786.98932   -1.04   LOR-20  787.911
2446568.5   310613.769  786.5334    -0.93   LOR-20  787.911
2446568.5   310613.769  786.09388   -0.99   LOR-20  787.911
2446568.5   310613.769  785.63796   -0.76   LOR-20  787.911
2446568.5   310613.769  785.19844   -0.8    LOR-20  787.911
2446568.5   310613.769  784.74908   -0.7    LOR-20  787.911
2446568.5   310613.769  784.2866    -0.44   LOR-20  787.911
2446568.5   310613.769  783.8438    -0.5    LOR-20  787.911
2446568.5   310613.769  783.39444   -1.42   LOR-20  787.911
2446568.5   310613.769  782.95164   -0.39   LOR-20  787.911
2446568.5   310613.769  782.6958    -2.11   LOR-20  787.911
2446575.823 310531.904  788.199 0.46    LOR-21  788.199
2446575.823 310531.904  787.75948   -1.55   LOR-21  788.199
2446575.823 310531.904  787.31012   -0.89   LOR-21  788.199
2446575.823 310531.904  786.85092   -0.49   LOR-21  788.199
2446575.823 310531.904  786.37204   -0.63   LOR-21  788.199
2446575.823 310531.904  785.87676   -0.76   LOR-21  788.199
2446575.823 310531.904  785.64388   0.32    LOR-21  788.199
2446575.823 310531.904  785.13876   14.93   LOR-21  788.199
2446575.823 310531.904  784.68612   36.91   LOR-21  788.199
2446575.823 310531.904  784.19084   147.89  LOR-21  788.199
2446575.823 310531.904  783.69556   79.89   LOR-21  788.199
2446575.823 310531.904  783.23308   37.75   LOR-21  788.199
2446575.823 310531.904  783.09532   311.11  LOR-21  788.199
2446575.823 310531.904  782.5902    17.52   LOR-21  788.199
2446575.823 310531.904  782.13428   14.85   LOR-21  788.199
2446575.823 310531.904  781.70132   12.66   LOR-21  788.199
2446575.823 310531.904  781.25524   5.7 LOR-21  788.199
2446575.823 310531.904  780.819 8.45    LOR-21  788.199
2446575.823 310531.904  780.62548   4.58    LOR-21  788.199
2446574.368 310447.911  786.444 -0.06   LOR-22  786.444
2446574.368 310447.911  785.97496   -0.98   LOR-22  786.444
2446574.368 310447.911  785.51904   -1.56   LOR-22  786.444
2446574.368 310447.911  785.07296   -0.8    LOR-22  786.444
2446574.368 310447.911  784.6072    -0.79   LOR-22  786.444
2446574.368 310447.911  784.16112   -0.84   LOR-22  786.444
2446574.368 310447.911  783.73144   -0.64   LOR-22  786.444
```

```
2446574.368 310447.911  783.28864   12.39   LOR-22  786.444
2446574.368 310447.911  782.83272   34.36   LOR-22  786.444
2446574.368 310447.911  782.39976   11.57   LOR-22  786.444
2446574.368 310447.911  781.95368   14.2    LOR-22  786.444
2446574.368 310447.911  781.51416   8.76    LOR-22  786.444
2446574.368 310447.911  781.08448   7.95    LOR-22  786.444
2446574.368 310447.911  780.63512   3.33    LOR-22  786.444
2446574.368 310447.911  780.4416    -0.65   LOR-22  786.444
2446582.622 310345.217  785.01  -0.08   LOR-24  785.01
2446582.622 310345.217  784.56064   -0.42   LOR-24  785.01
2446582.622 310345.217  784.1244    -0.62   LOR-24  785.01
2446582.622 310345.217  783.6324    -0.22   LOR-24  785.01
2446582.622 310345.217  783.49464   0.16    LOR-24  785.01
2446643.512 310327.549  788.111 0.53    LOR-25  788.111
2446643.512 310327.549  788.111 0.53    LOR-25  788.111
2446646.415 310337.741  787.929 -1.04   LOR-25A 787.929
2446646.415 310337.741  787.47964   -2.67   LOR-25A 787.929
2446646.415 310337.741  787.00732   -2.86   LOR-25A 787.929
2446646.415 310337.741  786.50548   -3.7    LOR-25A 787.929
2446646.415 310337.741  785.99052   -2.93   LOR-25A 787.929
2446646.415 310337.741  785.55756   -3.26   LOR-25A 787.929
2446646.415 310337.741  785.0754    -3.04   LOR-25A 787.929
2446646.415 310337.741  784.63588   2.46    LOR-25A 787.929
2446646.415 310337.741  784.1734    73.2    LOR-25A 787.929
2446646.415 310337.741  783.74044   55.83   LOR-25A 787.929
2446646.415 310337.741  783.24516   37.28   LOR-25A 787.929
2446646.415 310337.741  782.77612   62.64   LOR-25A 787.929
2446646.415 310337.741  782.33004   31.66   LOR-25A 787.929
2446646.415 310337.741  781.88068   20.26   LOR-25A 787.929
2446646.415 310337.741  781.451 23.95   LOR-25A 787.929
2446646.415 310337.741  780.98196   19.92   LOR-25A 787.929
2446646.415 310337.741  780.50308   27.08   LOR-25A 787.929
2446646.415 310337.741  780.04388   25.46   LOR-25A 787.929
2446646.415 310337.741  779.58468   27.95   LOR-25A 787.929
2446646.415 310337.741  779.1058    5.12    LOR-25A 787.929
2446646.415 310337.741  778.5974    -1.82   LOR-25A 787.929
2446646.415 310337.741  778.14148   -0.74   LOR-25A 787.929
2446646.415 310337.741  777.66588   -2.99   LOR-25A 787.929
2446646.415 310337.741  777.20668   -3.26   LOR-25A 787.929
2446646.415 310337.741  776.7278    -3.67   LOR-25A 787.929
2446646.415 310337.741  776.63924   -3.28   LOR-25A 787.929
2446708.344 310301.379  784.049 -0.67   LOR-26  784.049
2446708.344 310301.379  783.56028   -0.19   LOR-26  784.049
2446708.344 310301.379  783.09452   -0.44   LOR-26  784.049
2446708.344 310301.379  782.62548   -0.8    LOR-26  784.049
2446708.344 310301.379  782.19252   -0.64   LOR-26  784.049
2446708.344 310301.379  781.74644   -0.79   LOR-26  784.049
2446708.344 310301.379  781.30036   -0.51   LOR-26  784.049
2446708.344 310301.379  780.85428   -0.68   LOR-26  784.049
2446708.344 310301.379  780.41476   -0.76   LOR-26  784.049
2446760.881 310365.59   799.213 0.64    LOR-27  799.213
2446760.881 310365.59   799.0818    0.03    LOR-27  799.213
2446760.881 310365.59   798.61932   -0.22   LOR-27  799.213
2446760.881 310365.59   798.1634    0.77    LOR-27  799.213
2446760.881 310365.59   797.75012   29.47   LOR-27  799.213
2446760.881 310365.59   797.28764   11.66   LOR-27  799.213
2446760.881 310365.59   796.81532   13.9    LOR-27  799.213
2446760.881 310365.59   796.4086    0.13    LOR-27  799.213
2446760.881 310365.59   796.12324   3.55    LOR-27  799.213
2446760.881 310365.59   795.69356   4.76    LOR-27  799.213
2446760.881 310365.59   795.25404   2.68    LOR-27  799.213
2446760.881 310365.59   794.78172   2.49    LOR-27  799.213
2446760.881 310365.59   794.33236   5.25    LOR-27  799.213
2446760.881 310365.59   793.84364   10.68   LOR-27  799.213
```

2446760.881	310365.59	793.3746	22.92	LOR-27	799.213
2446760.881	310365.59	792.9318	2.55	LOR-27	799.213
2446760.881	310365.59	792.63988	0.19	LOR-27	799.213
2446760.881	310365.59	792.14788	0.69	LOR-27	799.213
2446760.881	310365.59	791.70836	0.53	LOR-27	799.213
2446760.881	310365.59	791.62308	0.49	LOR-27	799.213
2446804.413	310414.139	796.615	-0.26	LOR-28	796.615
2446804.413	310414.139	796.14268	0	LOR-28	796.615
2446804.413	310414.139	795.70644	-0.01	LOR-28	796.615
2446804.413	310414.139	795.25052	-0.31	LOR-28	796.615
2446804.413	310414.139	794.81756	-0.55	LOR-28	796.615
2446804.413	310414.139	794.38132	-0.21	LOR-28	796.615
2446804.413	310414.139	793.88276	-0.12	LOR-28	796.615
2446804.413	310414.139	793.4334	0.12	LOR-28	796.615
2446804.413	310414.139	792.99716	0.12	LOR-28	796.615
2446804.413	310414.139	792.51172	0.07	LOR-28	796.615
2446804.413	310414.139	792.04596	0.23	LOR-28	796.615
2446804.413	310414.139	791.91476	0.39	LOR-28	796.615
2446734.113	310451.175	793.073	0.35	LOR-29	793.073
2446734.113	310451.175	793.0238	0.24	LOR-29	793.073
2446734.113	310451.175	792.77124	0.19	LOR-29	793.073
2446734.113	310451.175	792.32516	0.25	LOR-29	793.073
2446734.113	310451.175	791.8594	0.17	LOR-29	793.073
2446734.113	310451.175	791.74788	0.15	LOR-29	793.073
2446734.113	310451.175	791.30836	0.22	LOR-29	793.073
2446734.113	310451.175	790.82948	0.17	LOR-29	793.073
2446734.113	310451.175	790.66876	0.13	LOR-29	793.073
2446734.113	310451.175	790.22596	0.19	LOR-29	793.073
2446734.113	310451.175	789.75692	0.12	LOR-29	793.073
2446734.113	310451.175	789.30428	0.2	LOR-29	793.073
2446734.113	310451.175	789.22884	0.11	LOR-29	793.073
2446734.113	310451.175	788.75324	0.26	LOR-29	793.073
2446734.113	310451.175	788.29404	0.23	LOR-29	793.073
2446734.113	310451.175	787.80532	0.27	LOR-29	793.073
2446734.113	310451.175	787.3166	0.2	LOR-29	793.073
2446734.113	310451.175	786.86724	0.17	LOR-29	793.073
2446734.113	310451.175	786.759	0.05	LOR-29	793.073
2446734.113	310451.175	786.68356	0.03	LOR-29	793.073
2446734.113	310451.175	786.22764	-0.11	LOR-29	793.073
2446734.113	310451.175	786.04068	0	LOR-29	793.073
2446734.113	310451.175	785.60116	-0.11	LOR-29	793.073
2446734.113	310451.175	785.2338	0.11	LOR-29	793.073
2446734.113	310451.175	784.77788	0.03	LOR-29	793.073
2446734.113	310451.175	784.63356	0.01	LOR-29	793.073
2446734.113	310451.175	784.51548	0.1	LOR-29	793.073
2446668.576	310458.889	790.487	-0.39	LOR-30	790.487
2446668.576	310458.889	790.03764	-0.42	LOR-30	790.487
2446668.576	310458.889	789.54564	-0.4	LOR-30	790.487
2446668.576	310458.889	789.1094	-0.57	LOR-30	790.487
2446668.576	310458.889	788.67644	-0.44	LOR-30	790.487
2446668.576	310458.889	788.21068	-0.43	LOR-30	790.487
2446668.576	310458.889	787.76132	-0.48	LOR-30	790.487
2446668.576	310458.889	787.32836	-0.38	LOR-30	790.487
2446668.576	310458.889	786.8626	-0.55	LOR-30	790.487
2446668.576	310458.889	786.39684	-0.39	LOR-30	790.487
2446668.576	310458.889	785.90156	-0.45	LOR-30	790.487
2446668.576	310458.889	785.38332	-0.38	LOR-30	790.487
2446668.576	310458.889	784.95036	3.55	LOR-30	790.487
2446668.576	310458.889	784.44852	33.47	LOR-30	790.487
2446668.576	310458.889	783.9926	3.61	LOR-30	790.487
2446668.576	310458.889	783.50388	2.22	LOR-30	790.487
2446668.576	310458.889	783.06436	-0.15	LOR-30	790.487
2446668.576	310458.889	782.62156	-0.18	LOR-30	790.487
2446668.576	310458.889	782.13284	-0.23	LOR-30	790.487

2446668.576	310458.889	781.68348	-0.29	LOR-30	790.487
2446668.576	310458.889	781.20132	0.07	LOR-30	790.487
2446668.576	310458.889	780.73884	-0.27	LOR-30	790.487
2446668.576	310458.889	780.30916	-0.34	LOR-30	790.487
2446668.576	310458.889	779.85652	-0.38	LOR-30	790.487
2446668.576	310458.889	779.3842	-0.48	LOR-30	790.487
2446668.576	310458.889	779.29564	-0.32	LOR-30	790.487
2446645.911	310383.212	787.826	0.73	LOR-31	787.826
2446645.911	310383.212	787.37664	-0.14	LOR-31	787.826
2446645.911	310383.212	787.17	-0.06	LOR-31	787.826
2446627.747	310772.261	796.332	-0.56	LOR-32	796.332
2446627.747	310772.261	795.87608	0.58	LOR-32	796.332
2446627.747	310772.261	795.4464	0.02	LOR-32	796.332
2446627.747	310772.261	795.01016	0.06	LOR-32	796.332
2446627.747	310772.261	794.528	0.08	LOR-32	796.332
2446627.747	310772.261	794.07864	0.03	LOR-32	796.332
2446627.747	310772.261	793.62928	0.09	LOR-32	796.332
2446627.747	310772.261	793.17008	0.31	LOR-32	796.332
2446627.747	310772.261	792.7076	10.91	LOR-32	796.332
2446627.747	310772.261	792.20576	10.32	LOR-32	796.332
2446627.747	310772.261	791.73344	10.74	LOR-32	796.332
2446627.747	310772.261	791.25784	10.39	LOR-32	796.332
2446627.747	310772.261	790.82488	8.19	LOR-32	796.332
2446627.747	310772.261	790.34928	8.1	LOR-32	796.332
2446627.747	310772.261	789.89664	8.41	LOR-32	796.332
2446627.747	310772.261	789.43088	5.57	LOR-32	796.332
2446627.747	310772.261	788.95856	7.8	LOR-32	796.332
2446627.747	310772.261	788.44688	4.06	LOR-32	796.332
2446627.747	310772.261	787.97128	8.81	LOR-32	796.332
2446627.747	310772.261	787.45632	8.11	LOR-32	796.332
2446627.747	310772.261	787.02664	6.78	LOR-32	796.332
2446627.747	310772.261	786.5904	5.98	LOR-32	796.332
2446627.747	310772.261	786.11808	2.79	LOR-32	796.332
2446627.747	310772.261	785.6392	1.91	LOR-32	796.332
2446627.747	310772.261	785.12424	0.08	LOR-32	796.332
2446627.747	310772.261	784.6388	2.63	LOR-32	796.332
2446627.747	310772.261	784.1632	1.89	LOR-32	796.332
2446627.747	310772.261	783.63184	0.45	LOR-32	796.332
2446627.747	310772.261	783.15952	-0.12	LOR-32	796.332
2446627.747	310772.261	782.6872	-0.04	LOR-32	796.332
2446627.747	310772.261	782.1952	-0.02	LOR-32	796.332
2446627.747	310772.261	781.73272	-0.11	LOR-32	796.332
2446627.747	310772.261	781.2768	-0.1	LOR-32	796.332
2446627.747	310772.261	780.81104	-0.04	LOR-32	796.332
2446627.747	310772.261	780.32232	-0.16	LOR-32	796.332
2446627.747	310772.261	779.86968	-0.19	LOR-32	796.332
2446627.747	310772.261	779.42688	-0.15	LOR-32	796.332
2446627.747	310772.261	778.9972	-0.25	LOR-32	796.332
2446627.747	310772.261	778.9808	-0.23	LOR-32	796.332
2446678.778	310771.007	792.673	0.78	LOR-33	792.673
2446678.778	310771.007	792.2138	3.5	LOR-33	792.673
2446678.778	310771.007	791.76444	1.75	LOR-33	792.673
2446678.778	310771.007	791.31836	2.13	LOR-33	792.673
2446678.778	310771.007	790.869	2.83	LOR-33	792.673
2446678.778	310771.007	790.35404	2.41	LOR-33	792.673
2446678.778	310771.007	790.00636	0.75	LOR-33	792.673
2446678.778	310771.007	789.55044	2.42	LOR-33	792.673
2446678.778	310771.007	789.10764	5.3	LOR-33	792.673
2446678.778	310771.007	788.78292	28.99	LOR-33	792.673
2446678.778	310771.007	788.33684	23.54	LOR-33	792.673
2446678.778	310771.007	787.80876	22.64	LOR-33	792.673
2446678.778	310771.007	787.28068	18.02	LOR-33	792.673
2446678.778	310771.007	786.81492	8.58	LOR-33	792.673
2446678.778	310771.007	786.2934	13.3	LOR-33	792.673

014946

```
2446678.778 310771.007  785.76204   4.88    LOR-33  792.673
2446678.778 310771.007  785.31596   6.81    LOR-33  792.673
2446678.778 310771.007  784.78132   10.2    LOR-33  792.673
2446678.778 310771.007  784.33196   3.28    LOR-33  792.673
2446678.778 310771.007  783.79076   4.25    LOR-33  792.673
2446678.778 310771.007  783.33484   5.85    LOR-33  792.673
2446678.778 310771.007  782.82316   13.5    LOR-33  792.673
2446678.778 310771.007  782.33116   3.66    LOR-33  792.673
2446678.778 310771.007  781.88508   3.28    LOR-33  792.673
2446678.778 310771.007  781.43572   4.19    LOR-33  792.673
2446678.778 310771.007  780.98636   2.75    LOR-33  792.673
2446678.778 310771.007  780.8158    0.01    LOR-33  792.673
2446678.778 310771.007  780.35004   0.51    LOR-33  792.673
2446678.778 310771.007  779.9138    0.37    LOR-33  792.673
2446678.778 310771.007  779.47428   0.63    LOR-33  792.673
2446678.778 310771.007  778.9954    1.95    LOR-33  792.673
2446678.778 310771.007  778.92652   5.03    LOR-33  792.673
2446678.778 310771.007  778.487 1.86    LOR-33  792.673
2446678.778 310771.007  778.02124   1.86    LOR-33  792.673
2446678.778 310771.007  777.59156   0.57    LOR-33  792.673
2446678.778 310771.007  777.13236   3.44    LOR-33  792.673
2446678.778 310771.007  776.6174    0.53    LOR-33  792.673
2446678.778 310771.007  776.35828   0.22    LOR-33  792.673
2446678.778 310771.007  775.83348   0.31    LOR-33  792.673
2446678.778 310771.007  775.30868   5.37    LOR-33  792.673
2446678.778 310771.007  774.81668   2   LOR-33  792.673
2446678.778 310771.007  774.36732   4.22    LOR-33  792.673
2446678.778 310771.007  773.93436   3.5 LOR-33  792.673
2446678.778 310771.007  773.7638    5.07    LOR-33  792.673
2446678.778 310771.007  773.33084   0.39    LOR-33  792.673
2446678.778 310771.007  773.24884   0.48    LOR-33  792.673
2446646.576 310700.646  797.299 0.05    LOR-34  797.299
2446646.576 310700.646  796.97756   2.18    LOR-34  797.299
2446646.576 310700.646  796.50524   0.25    LOR-34  797.299
2446646.576 310700.646  796.02964   0.19    LOR-34  797.299
2446646.576 310700.646  795.54092   0.2 LOR-34  797.299
2446646.576 310700.646  795.03908   0.16    LOR-34  797.299
2446646.576 310700.646  794.5274    0.15    LOR-34  797.299
2446646.576 310700.646  794.45524   0.14    LOR-34  797.299
2446646.576 310700.646  793.94684   1.16    LOR-34  797.299
2446646.576 310700.646  793.49748   8.5 LOR-34  797.299
2446646.576 310700.646  793.00876   4.06    LOR-34  797.299
2446646.576 310700.646  792.49052   5.5 LOR-34  797.299
2446646.576 310700.646  792.0018    18.55   LOR-34  797.299
2446646.576 310700.646  791.54588   17.71   LOR-34  797.299
2446646.576 310700.646  791.48028   26.37   LOR-34  797.299
2446646.576 310700.646  791.02764   11.78   LOR-34  797.299
2446646.576 310700.646  790.54548   19.71   LOR-34  797.299
2446646.576 310700.646  790.07644   22.89   LOR-34  797.299
2446646.576 310700.646  789.64348   23.96   LOR-34  797.299
2446646.576 310700.646  789.20724   10.24   LOR-34  797.299
2446646.576 310700.646  788.7382    9.57    LOR-34  797.299
2446646.576 310700.646  788.29868   12.68   LOR-34  797.299
2446646.576 310700.646  787.86244   34.05   LOR-34  797.299
2446646.576 310700.646  787.66892   46.2    LOR-34  797.299
2446646.576 310700.646  787.15396   13.68   LOR-34  797.299
2446646.576 310700.646  786.639 24.69   LOR-34  797.299
2446646.576 310700.646  786.12076   7.3 LOR-34  797.299
2446646.576 310700.646  785.59924   5.24    LOR-34  797.299
2446646.576 310700.646  785.12036   2.34    LOR-34  797.299
2446646.576 310700.646  784.60868   1.21    LOR-34  797.299
2446646.576 310700.646  784.343 0.99    LOR-34  797.299
2446785.859 310717.156  803.382 0.85    LOR-35  803.382
2446785.859 310717.156  802.89656   1.2 LOR-35  803.382
```

```
2446785.859 310717.156  802.45376   0.57    LOR-35  803.382
2446785.859 310717.156  801.99784   0.41    LOR-35  803.382
2446785.859 310717.156  801.53536   0.46    LOR-35  803.382
2446785.859 310717.156  801.08928   0.37    LOR-35  803.382
2446785.859 310717.156  800.59728   0.4 LOR-35  803.382
2446785.859 310717.156  800.10856   0.38    LOR-35  803.382
2446785.859 310717.156  799.58048   0.29    LOR-35  803.382
2446785.859 310717.156  799.14424   0.33    LOR-35  803.382
2446785.859 310717.156  798.708 0.32    LOR-35  803.382
2446785.859 310717.156  798.2652    0.29    LOR-35  803.382
2446785.859 310717.156  797.7896    0.32    LOR-35  803.382
2446785.859 310717.156  797.3468    0.4 LOR-35  803.382
2446785.859 310717.156  796.904 0.51    LOR-35  803.382
2446785.859 310717.156  796.45792   1.33    LOR-35  803.382
2446785.859 310717.156  795.9692    1.54    LOR-35  803.382
2446785.859 310717.156  795.52968   7.26    LOR-35  803.382
2446785.859 310717.156  795.0016    1.3 LOR-35  803.382
2446785.859 310717.156  794.53912   13.53   LOR-35  803.382
2446785.859 310717.156  794.10288   7   LOR-35  803.382
2446785.859 310717.156  793.58136   3.96    LOR-35  803.382
2446785.859 310717.156  793.14512   14.69   LOR-35  803.382
2446785.859 310717.156  792.67936   11.59   LOR-35  803.382
2446785.859 310717.156  792.24312   13.91   LOR-35  803.382
2446785.859 310717.156  791.81016   12.49   LOR-35  803.382
2446785.859 310717.156  791.37392   12.42   LOR-35  803.382
2446785.859 310717.156  790.89832   10.35   LOR-35  803.382
2446785.859 310717.156  790.38336   10.03   LOR-35  803.382
2446785.859 310717.156  789.87168   17.52   LOR-35  803.382
2446785.859 310717.156  789.43544   15.92   LOR-35  803.382
2446785.859 310717.156  788.9828    20.49   LOR-35  803.382
2446785.859 310717.156  788.46128   13.78   LOR-35  803.382
2446785.859 310717.156  788.00864   13.82   LOR-35  803.382
2446785.859 310717.156  787.56256   15.79   LOR-35  803.382
2446785.859 310717.156  786.90656   9.55    LOR-35  803.382
2446785.859 310717.156  786.43096   11.75   LOR-35  803.382
2446785.859 310717.156  785.95864   22.27   LOR-35  803.382
2446785.859 310717.156  785.424 24.97   LOR-35  803.382
2446785.859 310717.156  784.96152   24.51   LOR-35  803.382
2446785.859 310717.156  784.52528   7.3 LOR-35  803.382
2446785.859 310717.156  784.01032   4.47    LOR-35  803.382
2446785.859 310717.156  783.51504   10.11   LOR-35  803.382
2446785.859 310717.156  782.9804    8.14    LOR-35  803.382
2446785.859 310717.156  782.48512   7   LOR-35  803.382
2446785.859 310717.156  782.02592   11.6    LOR-35  803.382
2446785.859 310717.156  781.58968   16.05   LOR-35  803.382
2446785.859 310717.156  781.16  18.56   LOR-35  803.382
2446785.859 310717.156  780.71392   21.5    LOR-35  803.382
2446785.859 310717.156  780.25144   6.87    LOR-35  803.382
2446785.859 310717.156  779.81848   17.69   LOR-35  803.382
2446785.859 310717.156  779.35272   6.21    LOR-35  803.382
2446785.859 310717.156  778.91648   46.63   LOR-35  803.382
2446785.859 310717.156  778.44088   18.11   LOR-35  803.382
2446785.859 310717.156  778.00136   19.41   LOR-35  803.382
2446785.859 310717.156  777.56184   14.03   LOR-35  803.382
2446785.859 310717.156  777.08624   24.09   LOR-35  803.382
2446785.859 310717.156  776.65656   9.95    LOR-35  803.382
2446785.859 310717.156  776.22688   10.31   LOR-35  803.382
2446785.859 310717.156  775.7972    0.93    LOR-35  803.382
2446785.859 310717.156  775.53152   0.33    LOR-35  803.382
2447893.155 309672.589  783.458 1.28    P-03-01 783.458
2447893.155 309672.589  782.9824    1.63    P-03-01 783.458
2447893.155 309672.589  782.51992   0.93    P-03-01 783.458
2447893.155 309672.589  782.00496   1.05    P-03-01 783.458
2447893.155 309672.589  781.57528   1   P-03-01 783.458
```

```
2447893.155 309672.589  781.09968   1.06    P-03-01 783.458
2447893.155 309672.589  780.61424   1.1 P-03-01 783.458
2447893.155 309672.589  780.1452    0.95    P-03-01 783.458
2447893.155 309672.589  779.69912   0.94    P-03-01 783.458
2447893.155 309672.589  779.2432    0.94    P-03-01 783.458
2447893.155 309672.589  778.79056   0.64    P-03-01 783.458
2447893.155 309672.589  778.33464   0.79    P-03-01 783.458
2447893.155 309672.589  777.82296   0.78    P-03-01 783.458
2447893.155 309672.589  777.38344   0.81    P-03-01 783.458
2447893.155 309672.589  776.91112   1.15    P-03-01 783.458
2447893.155 309672.589  776.43552   1.12    P-03-01 783.458
2447893.155 309672.589  775.95992   1.33    P-03-01 783.458
2447893.155 309672.589  775.48104   1.29    P-03-01 783.458
2447893.155 309672.589  774.99888   1.2 P-03-01 783.458
2447893.155 309672.589  774.5364    1.16    P-03-01 783.458
2447893.155 309672.589  774.07392   1.21    P-03-01 783.458
2447893.155 309672.589  773.54912   1.15    P-03-01 783.458
2447893.155 309672.589  773.05712   1.03    P-03-01 783.458
2447893.155 309672.589  772.56184   1.08    P-03-01 783.458
2447893.155 309672.589  772.06656   1.19    P-03-01 783.458
2447893.155 309672.589  771.57128   1.06    P-03-01 783.458
2447893.155 309672.589  771.076 1.11    P-03-01 783.458
2447893.155 309672.589  770.57416   1.45    P-03-01 783.458
2447893.155 309672.589  770.08872   0.87    P-03-01 783.458
2447893.155 309672.589  769.6   0.86    P-03-01 783.458
2447893.155 309672.589  769.10472   0.85    P-03-01 783.458
2447893.155 309672.589  768.64552   1.25    P-03-01 783.458
2447893.155 309672.589  768.206 1.23    P-03-01 783.458
2447893.155 309672.589  767.74352   1.11    P-03-01 783.458
2447893.155 309672.589  767.27448   1.19    P-03-01 783.458
2447893.155 309672.589  766.75952   0.9 P-03-01 783.458
2447893.155 309672.589  766.32984   0.56    P-03-01 783.458
2447893.155 309672.589  765.88704   0.74    P-03-01 783.458
2447893.155 309672.589  765.41144   0.81    P-03-01 783.458
2447893.155 309672.589  764.96536   0.75    P-03-01 783.458
2447893.155 309672.589  764.44384   1.01    P-03-01 783.458
2447893.155 309672.589  764.00432   0.62    P-03-01 783.458
2447893.155 309672.589  763.55168   1.19    P-03-01 783.458
2447893.155 309672.589  763.09904   1.08    P-03-01 783.458
2447893.155 309672.589  762.63984   0.75    P-03-01 783.458
2447893.155 309672.589  762.18064   1.17    P-03-01 783.458
2447893.155 309672.589  761.73456   1.04    P-03-01 783.458
2447893.155 309672.589  761.24256   0.98    P-03-01 783.458
2447893.155 309672.589  760.79976   1.03    P-03-01 783.458
2447893.155 309672.589  760.34384   0.85    P-03-01 783.458
2447893.155 309672.589  759.88792   0.67    P-03-01 783.458
2447893.155 309672.589  759.432 0.72    P-03-01 783.458
2447893.155 309672.589  758.94  0.68    P-03-01 783.458
2447893.155 309672.589  758.43488   0.78    P-03-01 783.458
2447893.155 309672.589  758.0052    0.86    P-03-01 783.458
2447893.155 309672.589  757.56568   0.63    P-03-01 783.458
2447893.155 309672.589  757.1032    1.17    P-03-01 783.458
2447893.155 309672.589  756.60792   1.15    P-03-01 783.458
2447893.155 309672.589  756.14544   1.16    P-03-01 783.458
2447893.155 309672.589  755.68624   1.11    P-03-01 783.458
2447893.155 309672.589  755.25  0.91    P-03-01 783.458
2447893.155 309672.589  754.7252    1.07    P-03-01 783.458
2447893.155 309672.589  754.27912   0.99    P-03-01 783.458
2447893.155 309672.589  753.81992   0.91    P-03-01 783.458
2447893.155 309672.589  753.36072   0.86    P-03-01 783.458
2447893.155 309672.589  752.89824   0.86    P-03-01 783.458
2447893.155 309672.589  752.43576   0.82    P-03-01 783.458
2447893.155 309672.589  751.9372    0.86    P-03-01 783.458
2447893.155 309672.589  751.50752   0.71    P-03-01 783.458
```

```
2447893.155 309672.589  751.05816   0.6 P-03-01 783.458
2447893.155 309672.589  750.6088    0.8 P-03-01 783.458
2447893.155 309672.589  750.166 1.12    P-03-01 783.458
2447893.155 309672.589  749.72976   0.92    P-03-01 783.458
2447893.155 309672.589  749.1984    0.9 P-03-01 783.458
2447893.155 309672.589  748.7392    0.83    P-03-01 783.458
2447893.155 309672.589  748.2964    0.71    P-03-01 783.458
2447893.155 309672.589  747.81752   0.8 P-03-01 783.458
2447893.155 309672.589  747.3616    0.7 P-03-01 783.458
2447893.155 309672.589  746.92208   0.59    P-03-01 783.458
2447893.155 309672.589  746.48912   0.73    P-03-01 783.458
2447893.155 309672.589  745.97088   0.72    P-03-01 783.458
2447893.155 309672.589  745.83968   0.71    P-03-01 783.458
2447873.211 309600.034  781.991 0.85    P-03-02 781.991
2447873.211 309600.034  781.48916   0.77    P-03-02 781.991
2447873.211 309600.034  781.00044   0.73    P-03-02 781.991
2447873.211 309600.034  780.4986    0.9 P-03-02 781.991
2447873.211 309600.034  779.94428   0.83    P-03-02 781.991
2447873.211 309600.034  779.4654    0.71    P-03-02 781.991
2447873.211 309600.034  779.0226    0.72    P-03-02 781.991
2447873.211 309600.034  778.5634    0.69    P-03-02 781.991
2447873.211 309600.034  778.11404   0.68    P-03-02 781.991
2447873.211 309600.034  777.6122    0.74    P-03-02 781.991
2447873.211 309600.034  777.16284   0.86    P-03-02 781.991
2447873.211 309600.034  776.7266    0.72    P-03-02 781.991
2447873.211 309600.034  776.29692   0.76    P-03-02 781.991
2447873.211 309600.034  775.86396   0.68    P-03-02 781.991
2447873.211 309600.034  775.3982    0.78    P-03-02 781.991
2447873.211 309600.034  774.94228   0.74    P-03-02 781.991
2447873.211 309600.034  774.48964   0.76    P-03-02 781.991
2447873.211 309600.034  774.03044   0.87    P-03-02 781.991
2447873.211 309600.034  773.56468   0.93    P-03-02 781.991
2447873.211 309600.034  773.09892   0.92    P-03-02 781.991
2447873.211 309600.034  772.64956   0.96    P-03-02 781.991
2447873.211 309600.034  772.2002    0.75    P-03-02 781.991
2447873.211 309600.034  771.69508   0.86    P-03-02 781.991
2447873.211 309600.034  771.22276   1.03    P-03-02 781.991
2447873.211 309600.034  770.79308   0.68    P-03-02 781.991
2447873.211 309600.034  770.27156   0.78    P-03-02 781.991
2447873.211 309600.034  769.84188   0.83    P-03-02 781.991
2447873.211 309600.034  769.32692   0.75    P-03-02 781.991
2447873.211 309600.034  768.84804   0.81    P-03-02 781.991
2447873.211 309600.034  768.33308   0.81    P-03-02 781.991
2447873.211 309600.034  767.80828   0.88    P-03-02 781.991
2447873.211 309600.034  767.3786    0.96    P-03-02 781.991
2447873.211 309600.034  766.8538    0.71    P-03-02 781.991
2447873.211 309600.034  766.37492   0.7 P-03-02 781.991
2447873.211 309600.034  765.8698    0.89    P-03-02 781.991
2447873.211 309600.034  765.36468   0.79    P-03-02 781.991
2447873.211 309600.034  764.84972   0.72    P-03-02 781.991
2447873.211 309600.034  764.361 0.92    P-03-02 781.991
2447873.211 309600.034  763.9182    1.35    P-03-02 781.991
2447873.211 309600.034  763.4754    1.43    P-03-02 781.991
2447873.211 309600.034  762.9834    1.41    P-03-02 781.991
2447873.211 309600.034  762.4586    1.52    P-03-02 781.991
2447873.211 309600.034  762.0158    1.12    P-03-02 781.991
2447873.211 309600.034  761.56972   0.7 P-03-02 781.991
2447873.211 309600.034  761.11708   0.55    P-03-02 781.991
2447873.211 309600.034  760.66444   0.58    P-03-02 781.991
2447873.211 309600.034  760.2118    0.62    P-03-02 781.991
2447873.211 309600.034  759.7526    0.55    P-03-02 781.991
2447873.211 309600.034  759.2278    0.62    P-03-02 781.991
2447873.211 309600.034  758.77516   0.72    P-03-02 781.991
2447873.211 309600.034  758.31924   0.91    P-03-02 781.991
```

```
2447873.211 309600.034  757.8666    1   P-03-02 781.991
2447873.211 309600.034  757.41068   0.74    P-03-02 781.991
2447873.211 309600.034  756.95148   0.96    P-03-02 781.991
2447873.211 309600.034  756.46276   0.74    P-03-02 781.991
2447873.211 309600.034  756.02324   0.84    P-03-02 781.991
2447873.211 309600.034  755.56732   0.89    P-03-02 781.991
2447873.211 309600.034  755.1114    1.13    P-03-02 781.991
2447873.211 309600.034  754.65548   0.67    P-03-02 781.991
2447873.211 309600.034  754.19628   0.74    P-03-02 781.991
2447873.211 309600.034  753.701 0.74    P-03-02 781.991
2447873.211 309600.034  753.18276   0.81    P-03-02 781.991
2447873.211 309600.034  752.73668   0.74    P-03-02 781.991
2447873.211 309600.034  752.25124   0.52    P-03-02 781.991
2447873.211 309600.034  751.79204   0.6 P-03-02 781.991
2447873.211 309600.034  751.3394    0.45    P-03-02 781.991
2447873.211 309600.034  750.90644   0.63    P-03-02 781.991
2447873.211 309600.034  750.47676   0.72    P-03-02 781.991
2447873.211 309600.034  750.01428   0.72    P-03-02 781.991
2447873.211 309600.034  749.52884   0.58    P-03-02 781.991
2447873.211 309600.034  749.00404   0.43    P-03-02 781.991
2447873.211 309600.034  748.55796   0.45    P-03-02 781.991
2447873.211 309600.034  748.03316   0.74    P-03-02 781.991
2447873.211 309600.034  747.50836   0.59    P-03-02 781.991
2447873.211 309600.034  746.99012   0.69    P-03-02 781.991
2447873.211 309600.034  746.49156   0.48    P-03-02 781.991
2447873.211 309600.034  746.06188   0.62    P-03-02 781.991
2447873.211 309600.034  745.6322    0.54    P-03-02 781.991
2447873.211 309600.034  745.17956   0.5 P-03-02 781.991
2447873.211 309600.034  744.7302    0.61    P-03-02 781.991
2447873.211 309600.034  744.28084   0.76    P-03-02 781.991
2447873.211 309600.034  743.8118    0.68    P-03-02 781.991
2447873.211 309600.034  743.77572   0.63    P-03-02 781.991
2447996.487 309594.067  782.204 0.59    P-03-03 782.204
2447996.487 309594.067  781.75136   0.92    P-03-03 782.204
2447996.487 309594.067  781.31184   0.94    P-03-03 782.204
2447996.487 309594.067  780.80672   0.95    P-03-03 782.204
2447996.487 309594.067  780.30488   0.88    P-03-03 782.204
2447996.487 309594.067  779.7932    0.79    P-03-03 782.204
2447996.487 309594.067  779.25528   0.77    P-03-03 782.204
2447996.487 309594.067  778.78296   0.76    P-03-03 782.204
2447996.487 309594.067  778.29096   0.76    P-03-03 782.204
2447996.487 309594.067  777.7924    0.82    P-03-03 782.204
2447996.487 309594.067  777.29056   0.84    P-03-03 782.204
2447996.487 309594.067  776.78544   0.89    P-03-03 782.204
2447996.487 309594.067  776.31968   0.85    P-03-03 782.204
2447996.487 309594.067  775.83424   0.91    P-03-03 782.204
2447996.487 309594.067  775.32912   0.88    P-03-03 782.204
2447996.487 309594.067  774.83056   0.88    P-03-03 782.204
2447996.487 309594.067  774.39432   0.77    P-03-03 782.204
2447996.487 309594.067  773.88592   0.81    P-03-03 782.204
2447996.487 309594.067  773.4136    0.86    P-03-03 782.204
2447996.487 309594.067  772.98064   0.94    P-03-03 782.204
2447996.487 309594.067  772.48864   0.8 P-03-03 782.204
2447996.487 309594.067  771.99008   0.84    P-03-03 782.204
2447996.487 309594.067  771.4784    0.86    P-03-03 782.204
2447996.487 309594.067  771.04216   1.24    P-03-03 782.204
2447996.487 309594.067  770.53048   0.64    P-03-03 782.204
2447996.487 309594.067  769.99584   0.76    P-03-03 782.204
2447996.487 309594.067  769.5268    0.77    P-03-03 782.204
2447996.487 309594.067  769.04136   0.56    P-03-03 782.204
2447996.487 309594.067  768.56248   0.56    P-03-03 782.204
2447996.487 309594.067  768.09016   0.65    P-03-03 782.204
2447996.487 309594.067  767.60472   0.52    P-03-03 782.204
2447996.487 309594.067  767.16848   0.62    P-03-03 782.204
```

```
2447996.487 309594.067  767.10944   0.43    P-03-03 782.204
2448002.862 309480.231  783.002 0.79    P-03-04 783.002
2448002.862 309480.231  782.56576   0.77    P-03-04 783.002
2448002.862 309480.231  782.08032   0.78    P-03-04 783.002
2448002.862 309480.231  781.61784   0.77    P-03-04 783.002
2448002.862 309480.231  781.15536   0.7 P-03-04 783.002
2448002.862 309480.231  780.68632   0.83    P-03-04 783.002
2448002.862 309480.231  780.21728   0.73    P-03-04 783.002
2448002.862 309480.231  779.76464   0.85    P-03-04 783.002
2448002.862 309480.231  779.29232   0.75    P-03-04 783.002
2448002.862 309480.231  778.82  0.73    P-03-04 783.002
2448002.862 309480.231  778.33456   0.71    P-03-04 783.002
2448002.862 309480.231  777.81304   0.69    P-03-04 783.002
2448002.862 309480.231  777.37352   0.62    P-03-04 783.002
2448002.862 309480.231  776.92088   0.74    P-03-04 783.002
2448002.862 309480.231  776.47808   0.77    P-03-04 783.002
2448002.862 309480.231  776.02216   0.86    P-03-04 783.002
2448002.862 309480.231  775.56952   0.77    P-03-04 783.002
2448002.862 309480.231  775.11032   0.71    P-03-04 783.002
2448002.862 309480.231  774.6544    0.47    P-03-04 783.002
2448002.862 309480.231  774.1788    0.06    P-03-04 783.002
2448002.862 309480.231  773.81472   1.25    P-03-04 783.002
2448002.862 309480.231  773.35224   1.16    P-03-04 783.002
2448002.862 309480.231  772.834 1.11    P-03-04 783.002
2448002.862 309480.231  772.35184   1.12    P-03-04 783.002
2448002.862 309480.231  771.85984   0.77    P-03-04 783.002
2448002.862 309480.231  771.37112   1.28    P-03-04 783.002
2448002.862 309480.231  770.91848   1.32    P-03-04 783.002
2448002.862 309480.231  770.39696   1.17    P-03-04 783.002
2448002.862 309480.231  769.92464   1.04    P-03-04 783.002
2448002.862 309480.231  769.4392    0.59    P-03-04 783.002
2448002.862 309480.231  768.9472    1.02    P-03-04 783.002
2448002.862 309480.231  768.44864   1.04    P-03-04 783.002
2448002.862 309480.231  767.95664   0.82    P-03-04 783.002
2448002.862 309480.231  767.51712   0.27    P-03-04 783.002
2448002.862 309480.231  767.07104   0.14    P-03-04 783.002
2448002.862 309480.231  766.63808   0.73    P-03-04 783.002
2448002.862 309480.231  766.19528   0.83    P-03-04 783.002
2448002.862 309480.231  765.75248   1.51    P-03-04 783.002
2448002.862 309480.231  765.31296   3.4 P-03-04 783.002
2448002.862 309480.231  764.87016   2.99    P-03-04 783.002
2448002.862 309480.231  764.37488   2.71    P-03-04 783.002
2448002.862 309480.231  763.8796    0.92    P-03-04 783.002
2448002.862 309480.231  763.3876    1.06    P-03-04 783.002
2448002.862 309480.231  762.98416   2.55    P-03-04 783.002
2448117.2   309584.172  783.047 0.52    P-03-05 783.047
2448117.2   309584.172  782.5878    1.24    P-03-05 783.047
2448117.2   309584.172  782.0302    0.82    P-03-05 783.047
2448117.2   309584.172  781.54804   0.74    P-03-05 783.047
2448117.2   309584.172  781.0462    0.68    P-03-05 783.047
2448117.2   309584.172  780.56076   0.71    P-03-05 783.047
2448117.2   309584.172  780.12124   0.66    P-03-05 783.047
2448117.2   309584.172  779.61284   0.67    P-03-05 783.047
2448117.2   309584.172  779.17332   0.67    P-03-05 783.047
2448117.2   309584.172  778.74364   0.61    P-03-05 783.047
2448117.2   309584.172  778.30412   0.7 P-03-05 783.047
2448117.2   309584.172  777.85476   0.69    P-03-05 783.047
2448117.2   309584.172  777.3726    0.7 P-03-05 783.047
2448117.2   309584.172  776.90028   0.71    P-03-05 783.047
2448117.2   309584.172  776.45748   0.67    P-03-05 783.047
2448117.2   309584.172  776.00484   0.72    P-03-05 783.047
2448117.2   309584.172  775.54564   0.75    P-03-05 783.047
2448117.2   309584.172  775.08316   0.75    P-03-05 783.047
2448117.2   309584.172  774.59116   0.4 P-03-05 783.047
```

```
2448117.2   309584.172  774.11228   0.7 P-03-05 783.047
2448117.2   309584.172  773.67276   0.69    P-03-05 783.047
2448117.2   309584.172  773.20372   0.62    P-03-05 783.047
2448117.2   309584.172  772.7314    0.68    P-03-05 783.047
2448117.2   309584.172  772.2558    0.7 P-03-05 783.047
2448117.2   309584.172  771.7802    0.64    P-03-05 783.047
2448117.2   309584.172  771.26196   0.63    P-03-05 783.047
2448117.2   309584.172  770.81916   0.67    P-03-05 783.047
2448117.2   309584.172  770.3534    0.8 P-03-05 783.047
2448117.2   309584.172  769.8614    0.76    P-03-05 783.047
2448117.2   309584.172  769.37596   0.65    P-03-05 783.047
2448117.2   309584.172  768.89052   0.76    P-03-05 783.047
2448117.2   309584.172  768.40836   0.72    P-03-05 783.047
2448117.2   309584.172  767.94916   0.67    P-03-05 783.047
2448117.2   309584.172  767.4998    0.7 P-03-05 783.047
2448117.2   309584.172  767.03404   0.74    P-03-05 783.047
2448117.2   309584.172  766.55188   0.64    P-03-05 783.047
2448117.2   309584.172  766.06972   0.68    P-03-05 783.047
2448117.2   309584.172  765.55148   0.67    P-03-05 783.047
2448117.2   309584.172  765.06276   0.65    P-03-05 783.047
2448117.2   309584.172  764.52812   0.65    P-03-05 783.047
2448117.2   309584.172  764.07876   1.03    P-03-05 783.047
2448117.2   309584.172  763.64908   0.68    P-03-05 783.047
2448117.2   309584.172  763.13412   0.7 P-03-05 783.047
2448117.2   309584.172  762.85532   0.72    P-03-05 783.047
2448115.471 309507.022  783.391 0.9 P-03-06 783.391
2448115.471 309507.022  782.96132   0.94    P-03-06 783.391
2448115.471 309507.022  782.46276   0.63    P-03-06 783.391
2448115.471 309507.022  781.9478    0.66    P-03-06 783.391
2448115.471 309507.022  781.46564   0.67    P-03-06 783.391
2448115.471 309507.022  780.95396   0.77    P-03-06 783.391
2448115.471 309507.022  780.51772   0.64    P-03-06 783.391
2448115.471 309507.022  780.02572   0.68    P-03-06 783.391
2448115.471 309507.022  779.54028   0.87    P-03-06 783.391
2448115.471 309507.022  779.08764   0.86    P-03-06 783.391
2448115.471 309507.022  778.63828   0.89    P-03-06 783.391
2448115.471 309507.022  778.16924   0.8 P-03-06 783.391
2448115.471 309507.022  777.72644   0.85    P-03-06 783.391
2448115.471 309507.022  777.2738    0.9 P-03-06 783.391
2448115.471 309507.022  776.77524   0.87    P-03-06 783.391
2448115.471 309507.022  776.25372   0.82    P-03-06 783.391
2448115.471 309507.022  775.75844   0.84    P-03-06 783.391
2448115.471 309507.022  775.29268   0.7 P-03-06 783.391
2448115.471 309507.022  774.85972   0.49    P-03-06 783.391
2448115.471 309507.022  774.42348   0.44    P-03-06 783.391
2448115.471 309507.022  773.9282    0.79    P-03-06 783.391
2448115.471 309507.022  773.49852   0.51    P-03-06 783.391
2448115.471 309507.022  773.05572   0.51    P-03-06 783.391
2448115.471 309507.022  772.60964   0.69    P-03-06 783.391
2448115.471 309507.022  772.157 0.71    P-03-06 783.391
2448115.471 309507.022  771.67156   0.8 P-03-06 783.391
2448115.471 309507.022  771.21892   0.71    P-03-06 783.391
2448115.471 309507.022  770.78268   0.85    P-03-06 783.391
2448115.471 309507.022  770.33988   1.09    P-03-06 783.391
2448115.471 309507.022  769.89052   1.09    P-03-06 783.391
2448115.471 309507.022  769.43788   0.67    P-03-06 783.391
2448115.471 309507.022  768.97868   1.34    P-03-06 783.391
2448115.471 309507.022  768.48996   1.67    P-03-06 783.391
2448115.471 309507.022  768.03732   1.81    P-03-06 783.391
2448115.471 309507.022  767.60436   1.12    P-03-06 783.391
2448115.471 309507.022  767.10252   0.76    P-03-06 783.391
2448115.471 309507.022  766.581 0.6 P-03-06 783.391
2448115.471 309507.022  766.09228   0.47    P-03-06 783.391
2448115.471 309507.022  765.62652   0.9 P-03-06 783.391
```

```
2448115.471 309507.022  765.19356   0.74    P-03-06 783.391
2448115.471 309507.022  764.76388   0.62    P-03-06 783.391
2448115.471 309507.022  764.29812   0.61    P-03-06 783.391
2448115.471 309507.022  763.84876   0.73    P-03-06 783.391
2448115.471 309507.022  763.41252   0.55    P-03-06 783.391
2448115.471 309507.022  762.98284   1.45    P-03-06 783.391
2448115.471 309507.022  762.54332   1.36    P-03-06 783.391
2448115.471 309507.022  762.11036   1.57    P-03-06 783.391
2448115.471 309507.022  761.67084   1.48    P-03-06 783.391
2448115.471 309507.022  761.1854    0.9 P-03-06 783.391
2448115.471 309507.022  760.67372   1.21    P-03-06 783.391
2448115.471 309507.022  760.16532   1.03    P-03-06 783.391
2448115.471 309507.022  759.9226    1.22    P-03-06 783.391
2448216.544 309655.356  785.438 0.73    P-03-07 785.438
2448216.544 309655.356  785.42816   11.97   P-03-07 785.438
2448216.544 309655.356  784.90664   0.82    P-03-07 785.438
2448216.544 309655.356  784.74264   0.66    P-03-07 785.438
2448216.544 309655.356  784.27688   0.66    P-03-07 785.438
2448216.544 309655.356  783.83736   0.8 P-03-07 785.438
2448216.544 309655.356  783.39128   0.81    P-03-07 785.438
2448216.544 309655.356  782.93864   0.72    P-03-07 785.438
2448216.544 309655.356  782.47616   0.64    P-03-07 785.438
2448216.544 309655.356  782.03008   0.7 P-03-07 785.438
2448216.544 309655.356  781.56432   0.63    P-03-07 785.438
2448216.544 309655.356  781.09856   0.59    P-03-07 785.438
2448216.544 309655.356  780.6328    0.64    P-03-07 785.438
2448216.544 309655.356  780.1408    0.72    P-03-07 785.438
2448216.544 309655.356  779.70456   0.67    P-03-07 785.438
2448216.544 309655.356  779.20272   0.58    P-03-07 785.438
2448216.544 309655.356  778.73368   0.76    P-03-07 785.438
2448216.544 309655.356  778.26136   0.84    P-03-07 785.438
2448216.544 309655.356  777.8284    0.78    P-03-07 785.438
2448216.544 309655.356  777.34296   0.79    P-03-07 785.438
2448216.544 309655.356  776.90344   0.82    P-03-07 785.438
2448216.544 309655.356  776.44096   0.73    P-03-07 785.438
2448216.544 309655.356  775.9752    0.91    P-03-07 785.438
2448216.544 309655.356  775.4832    0.93    P-03-07 785.438
2448216.544 309655.356  774.9912    0.78    P-03-07 785.438
2448216.544 309655.356  774.5484    0.72    P-03-07 785.438
2448216.544 309655.356  774.03672   0.76    P-03-07 785.438
2448216.544 309655.356  773.5152    0.75    P-03-07 785.438
2448216.544 309655.356  773.03632   0.69    P-03-07 785.438
2448216.544 309655.356  772.62632   0.66    P-03-07 785.438
2448235.409 309561.75   784.518 0.17    P-03-08 784.518
2448235.409 309561.75   784.436 7.8 P-03-08 784.518
2448235.409 309561.75   783.97024   0.27    P-03-08 784.518
2448235.409 309561.75   783.51104   0.29    P-03-08 784.518
2448235.409 309561.75   783.0584    0.21    P-03-08 784.518
2448235.409 309561.75   782.8944    0.19    P-03-08 784.518
2448235.409 309561.75   782.39912   0.23    P-03-08 784.518
2448235.409 309561.75   781.93992   0.37    P-03-08 784.518
2448235.409 309561.75   781.49384   0.28    P-03-08 784.518
2448235.409 309561.75   781.02808   1.29    P-03-08 784.518
2448235.409 309561.75   780.57544   0.19    P-03-08 784.518
2448235.409 309561.75   780.11952   0.19    P-03-08 784.518
2448235.409 309561.75   779.66032   0.16    P-03-08 784.518
2448235.409 309561.75   779.2044    0.23    P-03-08 784.518
2448235.409 309561.75   778.70912   0.22    P-03-08 784.518
2448235.409 309561.75   778.2204    0.24    P-03-08 784.518
2448235.409 309561.75   777.74152   0.24    P-03-08 784.518
2448235.409 309561.75   777.26264   0.16    P-03-08 784.518
2448235.409 309561.75   776.78048   0.2 P-03-08 784.518
2448235.409 309561.75   776.29832   0.23    P-03-08 784.518
2448235.409 309561.75   775.8588    0.24    P-03-08 784.518
```

```
2448235.409 309561.75   775.34056   0.22    P-03-08 784.518
2448235.409 309561.75   774.8912    0.2 P-03-08 784.518
2448235.409 309561.75   774.41232   0.2 P-03-08 784.518
2448235.409 309561.75   773.9236    0.24    P-03-08 784.518
2448235.409 309561.75   773.48736   0.24    P-03-08 784.518
2448235.409 309561.75   772.95928   0.2 P-03-08 784.518
2448235.409 309561.75   772.50336   0.21    P-03-08 784.518
2448235.409 309561.75   772.01792   0.17    P-03-08 784.518
2448235.409 309561.75   771.49968   0.17    P-03-08 784.518
2448235.409 309561.75   770.97488   0.16    P-03-08 784.518
2448235.409 309561.75   770.5452    0.19    P-03-08 784.518
2448235.409 309561.75   770.0204    0.16    P-03-08 784.518
2448235.409 309561.75   769.59072   0.18    P-03-08 784.518
2448235.409 309561.75   769.14792   0.18    P-03-08 784.518
2448235.409 309561.75   768.66904   0.24    P-03-08 784.518
2448235.409 309561.75   768.18688   0.16    P-03-08 784.518
2448235.409 309561.75   767.708 0.18    P-03-08 784.518
2448235.409 309561.75   767.20944   0.23    P-03-08 784.518
2448235.409 309561.75   766.7404    0.22    P-03-08 784.518
2448235.409 309561.75   766.30088   0.16    P-03-08 784.518
2448235.409 309561.75   765.86792   0.19    P-03-08 784.518
2448235.409 309561.75   765.6744    0.18    P-03-08 784.518
2448228.89  309502.423  784.214 0.61    P-03-09 784.214
2448228.89  309502.423  783.74824   0.26    P-03-09 784.214
2448228.89  309502.423  783.2628    0.32    P-03-09 784.214
2448228.89  309502.423  782.7872    0.32    P-03-09 784.214
2448228.89  309502.423  782.23944   0.29    P-03-09 784.214
2448228.89  309502.423  781.74088   0.35    P-03-09 784.214
2448228.89  309502.423  781.23904   0.29    P-03-09 784.214
2448228.89  309502.423  780.7536    0.44    P-03-09 784.214
2448228.89  309502.423  780.28784   0.44    P-03-09 784.214
2448228.89  309502.423  779.8188    0.27    P-03-09 784.214
2448228.89  309502.423  779.3104    0.23    P-03-09 784.214
2448228.89  309502.423  778.8512    0.37    P-03-09 784.214
2448228.89  309502.423  778.40184   0.37    P-03-09 784.214
2448228.89  309502.423  777.9656    0.44    P-03-09 784.214
2448228.89  309502.423  777.47688   0.43    P-03-09 784.214
2448228.89  309502.423  776.95536   0.3 P-03-09 784.214
2448228.89  309502.423  776.51912   0.34    P-03-09 784.214
2448228.89  309502.423  776.03696   0.28    P-03-09 784.214
2448228.89  309502.423  775.59088   0.26    P-03-09 784.214
2448228.89  309502.423  775.15792   0.3 P-03-09 784.214
2448228.89  309502.423  774.69216   0.26    P-03-09 784.214
2448228.89  309502.423  774.21984   0.29    P-03-09 784.214
2448228.89  309502.423  773.77704   0.34    P-03-09 784.214
2448228.89  309502.423  773.33096   0.33    P-03-09 784.214
2448228.89  309502.423  772.8816    0.31    P-03-09 784.214
2448228.89  309502.423  772.35024   0.32    P-03-09 784.214
2448228.89  309502.423  771.87792   0.59    P-03-09 784.214
2448228.89  309502.423  771.44496   0.44    P-03-09 784.214
2448228.89  309502.423  770.99232   0.3 P-03-09 784.214
2448228.89  309502.423  770.54296   0.27    P-03-09 784.214
2448228.89  309502.423  770.0444    0.23    P-03-09 784.214
2448228.89  309502.423  769.58192   0.26    P-03-09 784.214
2448228.89  309502.423  769.07024   0.31    P-03-09 784.214
2448228.89  309502.423  768.56512   0.26    P-03-09 784.214
2448228.89  309502.423  768.11904   0.3 P-03-09 784.214
2448228.89  309502.423  767.62048   0.26    P-03-09 784.214
2448228.89  309502.423  767.14488   0.34    P-03-09 784.214
2448228.89  309502.423  766.90216   0.38    P-03-09 784.214
2448789.248 310252.764  827.035 0.85    P-04-01 827.035
2448789.248 310252.764  826.57252   0.64    P-04-01 827.035
2448789.248 310252.764  826.09364   0.28    P-04-01 827.035
2448789.248 310252.764  825.5918    0.45    P-04-01 827.035
```

```
2448789.248 310252.764  825.12604   0.47    P-04-01 827.035
2448789.248 310252.764  824.68324   0.26    P-04-01 827.035
2448789.248 310252.764  824.22404   0.85    P-04-01 827.035
2448789.248 310252.764  823.76156   2.72    P-04-01 827.035
2448789.248 310252.764  823.32204   3.06    P-04-01 827.035
2448789.248 310252.764  822.79396   2.79    P-04-01 827.035
2448789.248 310252.764  822.3282    2.06    P-04-01 827.035
2448789.248 310252.764  821.81652   3.21    P-04-01 827.035
2448789.248 310252.764  821.30812   0.81    P-04-01 827.035
2448789.248 310252.764  820.98012   0.55    P-04-01 827.035
2448769.037 310213.731  816.651 0.26    P-04-02 816.651
2448769.037 310213.731  816.18852   0.47    P-04-02 816.651
2448769.037 310213.731  815.72276   0.35    P-04-02 816.651
2448769.037 310213.731  815.27012   0.28    P-04-02 816.651
2448769.037 310213.731  814.82732   0.21    P-04-02 816.651
2448769.037 310213.731  814.3878    0.23    P-04-02 816.651
2448769.037 310213.731  813.93188   0.19    P-04-02 816.651
2448769.037 310213.731  813.5022    0.19    P-04-02 816.651
2448769.037 310213.731  813.06268   0.16    P-04-02 816.651
2448769.037 310213.731  812.56412   0.22    P-04-02 816.651
2448769.037 310213.731  812.12132   0.21    P-04-02 816.651
2448769.037 310213.731  812.05244   0.2 P-04-02 816.651
2448790.959 310168.101  815.368 0.29    P-04-03 815.368
2448790.959 310168.101  814.87272   0.52    P-04-03 815.368
2448790.959 310168.101  814.38072   0.38    P-04-03 815.368
2448790.959 310168.101  813.91824   0.4 P-04-03 815.368
2448790.959 310168.101  813.482 0.34    P-04-03 815.368
2448790.959 310168.101  813.01296   0.86    P-04-03 815.368
2448790.959 310168.101  812.5308    0.15    P-04-03 815.368
2448790.959 310168.101  812.02896   0.33    P-04-03 815.368
2448790.959 310168.101  811.57304   0.4 P-04-03 815.368
2448790.959 310168.101  811.09416   0.64    P-04-03 815.368
2448790.959 310168.101  810.73008   0.11    P-04-03 815.368
2449024.983 310175.384  828.956 1.04    P-04-06 828.956
2449024.983 310175.384  828.51976   0.82    P-04-06 828.956
2449024.983 310175.384  828.05072   0.61    P-04-06 828.956
2449024.983 310175.384  827.5948    0.58    P-04-06 828.956
2449024.983 310175.384  827.152 0.55    P-04-06 828.956
2449024.983 310175.384  826.69936   0.68    P-04-06 828.956
2449024.983 310175.384  826.24016   0.68    P-04-06 828.956
2449024.983 310175.384  825.75144   0.66    P-04-06 828.956
2449024.983 310175.384  825.32504   0.72    P-04-06 828.956
2449591.975 309630.573  788.128 1.41    TF-03-02    788.128
2449591.975 309630.573  787.65568   1.04    TF-03-02    788.128
2449591.975 309630.573  787.2096    0.85    TF-03-02    788.128
2449591.975 309630.573  786.77664   0.46    TF-03-02    788.128
2449591.975 309630.573  786.65528   0.74    TF-03-02    788.128
2449618.667 309656.945  787.933 0.67    TF-03-03    787.933
2449618.667 309656.945  787.43116   1.09    TF-03-03    787.933
2449618.667 309656.945  786.9982    1.04    TF-03-03    787.933
2449618.667 309656.945  786.98836   0.93    TF-03-03    787.933
2449667.169 309699.224  788.894 0.17    TF-03-04    788.894
2449667.169 309699.224  788.57912   2.53    TF-03-04    788.894
2449667.169 309699.224  788.07072   1.09    TF-03-04    788.894
2449667.169 309699.224  787.54264   0.83    TF-03-04    788.894
2449667.169 309699.224  787.11296   0.69    TF-03-04    788.894
2449667.169 309699.224  786.67672   0.56    TF-03-04    788.894
2449667.169 309699.224  786.19456   0.74    TF-03-04    788.894
2449667.169 309699.224  785.73864   0.82    TF-03-04    788.894
2449667.169 309699.224  785.27944   0.71    TF-03-04    788.894
2449667.169 309699.224  784.78744   0.73    TF-03-04    788.894
2449667.169 309699.224  784.32496   0.66    TF-03-04    788.894
2449667.169 309699.224  783.86904   0.68    TF-03-04    788.894
2449667.169 309699.224  783.41968   0.97    TF-03-04    788.894
```

```
2449667.169 309699.224  782.98016   0.6 TF-03-04    788.894
2449667.169 309699.224  782.54064   0.61    TF-03-04    788.894
2449667.169 309699.224  782.05848   0.61    TF-03-04    788.894
2449667.169 309699.224  781.55336   0.79    TF-03-04    788.894
2449667.169 309699.224  781.09088   0.63    TF-03-04    788.894
2449667.169 309699.224  780.56936   0.53    TF-03-04    788.894
2449667.169 309699.224  780.10032   0.68    TF-03-04    788.894
2449667.169 309699.224  780.09376   0.95    TF-03-04    788.894
2449652.836 309632.924  787.874 1.53    TF-03-05    787.874
2449652.836 309632.924  787.39184   1.48    TF-03-05    787.874
2449652.836 309632.924  786.9556    1.35    TF-03-05    787.874
2449652.836 309632.924  786.4472    1.42    TF-03-05    787.874
2449652.836 309632.924  785.94208   1.2 TF-03-05    787.874
2449652.836 309632.924  785.45992   1.23    TF-03-05    787.874
2449652.836 309632.924  785.02368   1.14    TF-03-05    787.874
2449652.836 309632.924  784.58744   1.32    TF-03-05    787.874
2449652.836 309632.924  784.12168   1.63    TF-03-05    787.874
2449652.836 309632.924  783.68216   1.18    TF-03-05    787.874
2449652.836 309632.924  783.24264   1.26    TF-03-05    787.874
2449652.836 309632.924  782.79984   1.34    TF-03-05    787.874
2449652.836 309632.924  782.35376   1.29    TF-03-05    787.874
2449652.836 309632.924  781.84864   1.21    TF-03-05    787.874
2449652.836 309632.924  781.40584   1.35    TF-03-05    787.874
2449652.836 309632.924  780.95648   1.14    TF-03-05    787.874
2449652.836 309632.924  780.47104   1.27    TF-03-05    787.874
2449652.836 309632.924  780.0184    3.35    TF-03-05    787.874
2449652.836 309632.924  779.55592   3.53    TF-03-05    787.874
2449652.836 309632.924  779.06064   1.14    TF-03-05    787.874
2449652.836 309632.924  778.60144   2.01    TF-03-05    787.874
2449652.836 309632.924  778.14224   1.17    TF-03-05    787.874
2449652.836 309632.924  777.68632   1.04    TF-03-05    787.874
2449652.836 309632.924  777.22712   1.09    TF-03-05    787.874
2449652.836 309632.924  776.76464   1.13    TF-03-05    787.874
2449652.836 309632.924  776.30216   1   TF-03-05    787.874
2449652.836 309632.924  775.8036    0.93    TF-03-05    787.874
2449652.836 309632.924  775.27224   1.03    TF-03-05    787.874
2449652.836 309632.924  775.0656    1.06    TF-03-05    787.874
2449644.077 309587.3    787.74044   1.32    TF-03-06    787.747
2449644.077 309587.3    787.27468   0.98    TF-03-06    787.747
2449644.077 309587.3    786.77284   0.98    TF-03-06    787.747
2449644.077 309587.3    786.25132   1.11    TF-03-06    787.747
2449644.077 309587.3    785.7298    0.95    TF-03-06    787.747
2449644.077 309587.3    785.205 1.09    TF-03-06    787.747
2449644.077 309587.3    784.69332   1.28    TF-03-06    787.747
2449644.077 309587.3    784.24068   1.02    TF-03-06    787.747
2449644.077 309587.3    783.78148   1.14    TF-03-06    787.747
2449644.077 309587.3    783.319 1.26    TF-03-06    787.747
2449644.077 309587.3    782.85652   1.5 TF-03-06    787.747
2449644.077 309587.3    782.36124   0.98    TF-03-06    787.747
2449644.077 309587.3    781.92172   1.17    TF-03-06    787.747
2449644.077 309587.3    781.42972   1.38    TF-03-06    787.747
2449644.077 309587.3    780.97708   3.93    TF-03-06    787.747
2449644.077 309587.3    780.50804   0.89    TF-03-06    787.747
2449644.077 309587.3    780.44244   1.56    TF-03-06    787.747
2449696.033 309627.496  787.851 1.17    TF-03-07    787.851
2449696.033 309627.496  787.41148   1.76    TF-03-07    787.851
2449696.033 309627.496  786.94572   1.39    TF-03-07    787.851
2449696.033 309627.496  786.48324   1.42    TF-03-07    787.851
2449696.033 309627.496  786.01092   1.36    TF-03-07    787.851
2449696.033 309627.496  785.50908   1.51    TF-03-07    787.851
2449696.033 309627.496  785.063 1.54    TF-03-07    787.851
2449696.033 309627.496  784.60052   1.41    TF-03-07    787.851
2449696.033 309627.496  784.1118    1.78    TF-03-07    787.851
2449696.033 309627.496  783.66572   1.33    TF-03-07    787.851
```

```
2449696.033 309627.496  783.21308   1.34    TF-03-07    787.851
2449696.033 309627.496  782.76044   1.67    TF-03-07    787.851
2449696.033 309627.496  782.26844   1.46    TF-03-07    787.851
2449696.033 309627.496  781.79284   3.45    TF-03-07    787.851
2449696.033 309627.496  781.28444   2.47    TF-03-07    787.851
2449696.033 309627.496  780.80884   3.63    TF-03-07    787.851
2449696.033 309627.496  780.3234    3.63    TF-03-07    787.851
2449696.033 309627.496  779.83796   5.45    TF-03-07    787.851
2449696.033 309627.496  779.323 3.78    TF-03-07    787.851
2449696.033 309627.496  778.8638    2.23    TF-03-07    787.851
2449696.033 309627.496  778.3882    1.74    TF-03-07    787.851
2449696.033 309627.496  777.90604   1.75    TF-03-07    787.851
2449696.033 309627.496  777.39108   1.68    TF-03-07    787.851
2449696.033 309627.496  776.9122    1.6 TF-03-07    787.851
2449696.033 309627.496  776.4366    1.46    TF-03-07    787.851
2449696.033 309627.496  775.92164   1.9 TF-03-07    787.851
2449696.033 309627.496  775.44276   2.38    TF-03-07    787.851
2449696.033 309627.496  775.01308   3.68    TF-03-07    787.851
2449696.033 309627.496  774.52108   2.93    TF-03-07    787.851
2449696.033 309627.496  774.0422    3.04    TF-03-07    787.851
2449696.033 309627.496  773.55676   2.21    TF-03-07    787.851
2449696.033 309627.496  773.03524   3.15    TF-03-07    787.851
2449696.033 309627.496  772.5498    2.57    TF-03-07    787.851
2449696.033 309627.496  772.06764   3.27    TF-03-07    787.851
2449696.033 309627.496  771.60188   1.95    TF-03-07    787.851
2449696.033 309627.496  771.12956   3.15    TF-03-07    787.851
2449696.033 309627.496  770.65068   2.85    TF-03-07    787.851
2449696.033 309627.496  770.17508   1.98    TF-03-07    787.851
2449696.033 309627.496  769.69948   1.89    TF-03-07    787.851
2449696.033 309627.496  769.22388   2.06    TF-03-07    787.851
2449696.033 309627.496  769.05332   2.79    TF-03-07    787.851
2449621.488 309562.523  787.944 1.19    TF-03-08    787.944
2449621.488 309562.523  787.44872   1.59    TF-03-08    787.944
2449621.488 309562.523  787.0092    1.51    TF-03-08    787.944
2449621.488 309562.523  786.56312   1.21    TF-03-08    787.944
2449621.488 309562.523  786.11704   1.09    TF-03-08    787.944
2449621.488 309562.523  785.62832   1.15    TF-03-08    787.944
2449621.488 309562.523  785.18552   1.47    TF-03-08    787.944
2449621.488 309562.523  784.65416   1.07    TF-03-08    787.944
2449621.488 309562.523  784.20808   1.05    TF-03-08    787.944
2449621.488 309562.523  784.01456   0.94    TF-03-08    787.944
2449708.299 309585.394  787.327 1.22    TF-03-09    787.327
2449708.299 309585.394  786.8186    1.15    TF-03-09    787.327
2449708.299 309585.394  786.38564   0.82    TF-03-09    787.327
2449708.299 309585.394  785.85756   1.02    TF-03-09    787.327
2449708.299 309585.394  785.32948   0.98    TF-03-09    787.327
2449708.299 309585.394  784.89652   0.9 TF-03-09    787.327
2449708.299 309585.394  784.41108   0.81    TF-03-09    787.327
2449708.299 309585.394  783.89612   0.92    TF-03-09    787.327
2449708.299 309585.394  783.4074    0.84    TF-03-09    787.327
2449708.299 309585.394  782.94164   0.87    TF-03-09    787.327
2449708.299 309585.394  782.50868   0.97    TF-03-09    787.327
2449708.299 309585.394  782.01668   1.17    TF-03-09    787.327
2449708.299 309585.394  781.5706    1.47    TF-03-09    787.327
2449708.299 309585.394  781.08188   0.94    TF-03-09    787.327
2449708.299 309585.394  780.57348   0.97    TF-03-09    787.327
2449708.299 309585.394  780.08804   1.01    TF-03-09    787.327
2449708.299 309585.394  779.62228   1.1 TF-03-09    787.327
2449708.299 309585.394  779.18604   1.91    TF-03-09    787.327
2449708.299 309585.394  778.75636   1.22    TF-03-09    787.327
2449708.299 309585.394  778.30372   2.11    TF-03-09    787.327
2449708.299 309585.394  777.86748   3.17    TF-03-09    787.327
2449708.299 309585.394  777.42468   0.89    TF-03-09    787.327
2449708.299 309585.394  776.97532   0.98    TF-03-09    787.327
```

```
2449708.299 309585.394  776.49316   0.98    TF-03-09    787.327
2449708.299 309585.394  776.04708   1.99    TF-03-09    787.327
2449708.299 309585.394  775.59444   1.07    TF-03-09    787.327
2449708.299 309585.394  775.109 1.05    TF-03-09    787.327
2449708.299 309585.394  774.67276   1.03    TF-03-09    787.327
2449708.299 309585.394  774.2234    1.07    TF-03-09    787.327
2449708.299 309585.394  773.76092   1.14    TF-03-09    787.327
2449708.299 309585.394  773.31156   1.11    TF-03-09    787.327
2449708.299 309585.394  772.92124   1.31    TF-03-09    787.327
2449761.494 309614.794  787.14  0.67    TF-03-10    787.14
2449761.494 309614.794  786.70048   1.2 TF-03-10    787.14
2449761.494 309614.794  786.24128   1.18    TF-03-10    787.14
2449761.494 309614.794  785.73288   0.97    TF-03-10    787.14
2449761.494 309614.794  785.29336   1.21    TF-03-10    787.14
2449761.494 309614.794  784.85056   0.88    TF-03-10    787.14
2449761.494 309614.794  784.39136   0.97    TF-03-10    787.14
2449761.494 309614.794  783.93872   0.89    TF-03-10    787.14
2449761.494 309614.794  783.48608   0.94    TF-03-10    787.14
2449761.494 309614.794  783.0236    16.3    TF-03-10    787.14
2449761.494 309614.794  782.52504   21.36   TF-03-10    787.14
2449761.494 309614.794  782.08552   18.1    TF-03-10    787.14
2449761.494 309614.794  781.564 20.51   TF-03-10    787.14
2449761.494 309614.794  781.11136   23.69   TF-03-10    787.14
2449761.494 309614.794  780.60952   24.63   TF-03-10    787.14
2449761.494 309614.794  780.17984   10.25   TF-03-10    787.14
2449761.494 309614.794  779.66488   10.92   TF-03-10    787.14
2449761.494 309614.794  779.19584   8.92    TF-03-10    787.14
2449761.494 309614.794  778.7596    19.16   TF-03-10    787.14
2449761.494 309614.794  778.30696   14.23   TF-03-10    787.14
2449761.494 309614.794  777.78872   13.49   TF-03-10    787.14
2449761.494 309614.794  777.30984   24.39   TF-03-10    787.14
2449761.494 309614.794  776.7916    5.8 TF-03-10    787.14
2449761.494 309614.794  776.30944   18.72   TF-03-10    787.14
2449761.494 309614.794  775.83056   12.8    TF-03-10    787.14
2449761.494 309614.794  775.36152   17.14   TF-03-10    787.14
2449761.494 309614.794  774.8892    25.01   TF-03-10    787.14
2449761.494 309614.794  774.43328   29.41   TF-03-10    787.14
2449761.494 309614.794  774.26928   39.24   TF-03-10    787.14
2449761.494 309614.794  773.74448   12.36   TF-03-10    787.14
2449761.494 309614.794  773.31152   2.83    TF-03-10    787.14
2449761.494 309614.794  772.84576   0.9 TF-03-10    787.14
2449761.494 309614.794  772.40952   0.85    TF-03-10    787.14
2449761.494 309614.794  772.31112   0.66    TF-03-10    787.14
2449761.494 309614.794  771.87816   0.86    TF-03-10    787.14
2449761.494 309614.794  771.40584   0.64    TF-03-10    787.14
2449761.494 309614.794  770.9696    0.67    TF-03-10    787.14
2449761.494 309614.794  770.53664   0.84    TF-03-10    787.14
2449761.494 309614.794  770.06432   0.78    TF-03-10    787.14
2449761.494 309614.794  769.62808   0.94    TF-03-10    787.14
2449761.494 309614.794  769.18528   1   TF-03-10    787.14
2449761.494 309614.794  768.74576   1.03    TF-03-10    787.14
2449761.494 309614.794  768.24392   1   TF-03-10    787.14
2449761.494 309614.794  767.80768   1.07    TF-03-10    787.14
2449761.494 309614.794  767.36816   0.73    TF-03-10    787.14
2449761.494 309614.794  766.92864   0.73    TF-03-10    787.14
2449761.494 309614.794  766.48584   0.77    TF-03-10    787.14
2449761.494 309614.794  766.03976   0.51    TF-03-10    787.14
2449761.494 309614.794  765.59696   0.8 TF-03-10    787.14
2449761.494 309614.794  765.0984    0.74    TF-03-10    787.14
2449761.494 309614.794  764.6556    0.66    TF-03-10    787.14
2449761.494 309614.794  764.20952   0.69    TF-03-10    787.14
2449761.494 309614.794  763.76016   0.81    TF-03-10    787.14
2449761.494 309614.794  763.28128   0.62    TF-03-10    787.14
2449761.494 309614.794  762.82208   0.71    TF-03-10    787.14
```

```
2449761.494 309614.794  762.37928   0.55    TF-03-10    787.14
2449761.494 309614.794  761.93648   0.55    TF-03-10    787.14
2449761.494 309614.794  761.44448   0.6 TF-03-10    787.14
2449761.494 309614.794  760.9984    0.74    TF-03-10    787.14
2449761.494 309614.794  760.96232   0.68    TF-03-10    787.14
2449446.896 310577.484  826.538 0.22    TF-05-02    826.538
2449446.896 310577.484  826.04928   0.07    TF-05-02    826.538
2449446.896 310577.484  825.6196    0   TF-05-02    826.538
2449446.896 310577.484  825.18336   -0.06   TF-05-02    826.538
2449446.896 310577.484  825.14072   -0.07   TF-05-02    826.538
2449451.249 310614.238  828.223 1.05    TF-05-03    828.223
2449451.249 310614.238  827.80972   0.22    TF-05-03    828.223
2449455.491 310659.55   828.42  1.07    TF-05-04    828.42
2449455.491 310659.55   827.98048   0.7 TF-05-04    828.42
2449455.491 310659.55   827.5344    0.36    TF-05-04    828.42
2449455.491 310659.55   827.09816   0.34    TF-05-04    828.42
2449455.491 310659.55   826.65864   0.27    TF-05-04    828.42
2449455.491 310659.55   826.21584   0.21    TF-05-04    828.42
2449455.491 310659.55   826.01576   0.16    TF-05-04    828.42
2449497.44  310596.589  826.032 0.67    TF-05-05    826.032
2449497.44  310596.589  825.51376   0.78    TF-05-05    826.032
2449497.44  310596.589  825.06768   0.27    TF-05-05    826.032
2449497.44  310596.589  824.62816   0.26    TF-05-05    826.032
2449497.44  310596.589  824.18208   0.33    TF-05-05    826.032
2449497.44  310596.589  823.69336   0.29    TF-05-05    826.032
2449497.44  310596.589  823.1784    0.31    TF-05-05    826.032
2449497.44  310596.589  822.65032   0.2 TF-05-05    826.032
2449497.44  310596.589  822.18128   0.26    TF-05-05    826.032
2449497.44  310596.589  821.72208   0.24    TF-05-05    826.032
2449497.44  310596.589  821.28912   0.23    TF-05-05    826.032
2449497.44  310596.589  820.82992   0.18    TF-05-05    826.032
2449497.44  310596.589  820.37072   0.14    TF-05-05    826.032
2449497.44  310596.589  819.92464   0.09    TF-05-05    826.032
2449497.44  310596.589  819.49496   0.12    TF-05-05    826.032
2449497.44  310596.589  819.05216   0.11    TF-05-05    826.032
2449497.44  310596.589  819.03576   0.1 TF-05-05    826.032
2449485.786 310562.695  826.074 0.12    TF-05-06    826.074
2449485.786 310562.695  825.78536   1.7 TF-05-06    826.074
2449485.786 310562.695  825.39504   0.15    TF-05-06    826.074
2449485.786 310562.695  824.94568   0.15    TF-05-06    826.074
2449485.786 310562.695  824.51272   0.21    TF-05-06    826.074
2449485.786 310562.695  824.04696   0.16    TF-05-06    826.074
2449485.786 310562.695  823.61728   0.19    TF-05-06    826.074
2449485.786 310562.695  823.1548    0.19    TF-05-06    826.074
2449485.786 310562.695  822.61688   0.18    TF-05-06    826.074
2449485.786 310562.695  822.12816   0.15    TF-05-06    826.074
2449485.786 310562.695  821.6132    0.18    TF-05-06    826.074
2449485.786 310562.695  821.14416   0.43    TF-05-06    826.074
2449485.786 310562.695  820.81616   0.19    TF-05-06    826.074
2449537.201 310623.423  825.374 0.38    TF-05-07    825.374
2449537.201 310623.423  824.87872   0.44    TF-05-07    825.374
2449537.201 310623.423  824.44248   0.14    TF-05-07    825.374
2449537.201 310623.423  823.97672   0.14    TF-05-07    825.374
2449537.201 310623.423  823.5044    0.2 TF-05-07    825.374
2449537.201 310623.423  823.02224   4.7 TF-05-07    825.374
2449537.201 310623.423  822.54008   13.73   TF-05-07    825.374
2449537.201 310623.423  822.0776    28.56   TF-05-07    825.374
2449537.201 310623.423  821.602 19.36   TF-05-07    825.374
2449537.201 310623.423  821.11656   21.68   TF-05-07    825.374
2449537.201 310623.423  820.65736   23.2    TF-05-07    825.374
2449537.201 310623.423  820.16208   17.37   TF-05-07    825.374
2449537.201 310623.423  819.71272   5.36    TF-05-07    825.374
2449537.201 310623.423  819.21088   2.71    TF-05-07    825.374
2449537.201 310623.423  818.75824   1.33    TF-05-07    825.374
```

```
2449537.201 310623.423  818.32528   1.06    TF-05-07    825.374
2449537.201 310623.423  817.88576   5.57    TF-05-07    825.374
2449537.201 310623.423  817.43968   0.11    TF-05-07    825.374
2449537.201 310623.423  816.93456   -0.01   TF-05-07    825.374
2449537.201 310623.423  816.49504   -0.06   TF-05-07    825.374
2449537.201 310623.423  816.03584   -0.05   TF-05-07    825.374
2449537.201 310623.423  815.60616   -0.04   TF-05-07    825.374
2449537.201 310623.423  815.1732    0.01    TF-05-07    825.374
2449537.201 310623.423  814.74352   -0.03   TF-05-07    825.374
2449537.201 310623.423  814.31056   -0.07   TF-05-07    825.374
2449537.201 310623.423  813.8776    -0.04   TF-05-07    825.374
2449537.201 310623.423  813.2872    -0.07   TF-05-07    825.374
2449537.201 310623.423  812.746 0   TF-05-07    825.374
2449537.201 310623.423  812.22448   0.05    TF-05-07    825.374
2449537.201 310623.423  811.72592   0.02    TF-05-07    825.374
2449537.201 310623.423  811.23392   -0.01   TF-05-07    825.374
2449537.201 310623.423  810.75176   -0.06   TF-05-07    825.374
2449537.201 310623.423  810.27616   -0.08   TF-05-07    825.374
2449537.201 310623.423  809.78088   -0.08   TF-05-07    825.374
2449537.201 310623.423  809.29216   -0.06   TF-05-07    825.374
2449537.201 310623.423  809.01336   -0.02   TF-05-07    825.374
2449539.842 310560.41   824.842 0.32    TF-05-08    824.842
2449539.842 310560.41   824.37624   0.27    TF-05-08    824.842
2449539.842 310560.41   823.91704   -0.03   TF-05-08    824.842
2449539.842 310560.41   823.43488   0.6 TF-05-08    824.842
2449539.842 310560.41   822.956 5.32    TF-05-08    824.842
2449539.842 310560.41   822.46728   16.45   TF-05-08    824.842
2449539.842 310560.41   821.98512   11.4    TF-05-08    824.842
2449539.842 310560.41   821.47672   5.76    TF-05-08    824.842
2449539.842 310560.41   820.96176   12.12   TF-05-08    824.842
2449539.842 310560.41   820.43696   0.48    TF-05-08    824.842
2449539.842 310560.41   819.90888   1.4 TF-05-08    824.842
2449539.842 310560.41   819.47264   2.02    TF-05-08    824.842
2449539.842 310560.41   818.96096   1.2 TF-05-08    824.842
2449539.842 310560.41   818.49848   2.35    TF-05-08    824.842
2449539.842 310560.41   818.02944   0.47    TF-05-08    824.842
2449539.842 310560.41   817.53088   -0.03   TF-05-08    824.842
2449539.842 310560.41   817.06184   -0.1    TF-05-08    824.842
2449539.842 310560.41   816.58952   -0.01   TF-05-08    824.842
2449539.842 310560.41   816.11392   -0.12   TF-05-08    824.842
2449539.842 310560.41   815.66784   -0.12   TF-05-08    824.842
2449539.842 310560.41   815.19224   -0.09   TF-05-08    824.842
2449539.842 310560.41   814.71336   -0.05   TF-05-08    824.842
2449539.842 310560.41   814.20168   -0.06   TF-05-08    824.842
2449539.842 310560.41   813.71952   -0.07   TF-05-08    824.842
2449539.842 310560.41   813.24064   -0.06   TF-05-08    824.842
2449539.842 310560.41   812.79784   -0.08   TF-05-08    824.842
2449539.842 310560.41   812.29272   -0.1    TF-05-08    824.842
2449539.842 310560.41   811.85648   -0.07   TF-05-08    824.842
2449539.842 310560.41   811.69248   -0.14   TF-05-08    824.842
2449571.202 310585.414  824.219 0.03    TF-05-09    824.219
2449571.202 310585.414  823.77948   0.74    TF-05-09    824.219
2449571.202 310585.414  823.32356   0.34    TF-05-09    824.219
2449571.202 310585.414  822.85124   1.22    TF-05-09    824.219
2449571.202 310585.414  822.36908   1.11    TF-05-09    824.219
2449571.202 310585.414  821.88036   27.33   TF-05-09    824.219
2449571.202 310585.414  821.40476   29.8    TF-05-09    824.219
2449571.202 310585.414  820.93244   9.96    TF-05-09    824.219
2449571.202 310585.414  820.44044   8.05    TF-05-09    824.219
2449571.202 310585.414  819.94516   5.98    TF-05-09    824.219
2449571.202 310585.414  819.44332   0.43    TF-05-09    824.219
2449571.202 310585.414  818.94476   0.67    TF-05-09    824.219
2449571.202 310585.414  818.48884   0.15    TF-05-09    824.219
2449571.202 310585.414  818.00996   0.08    TF-05-09    824.219
```

```
2449571.202 310585.414  817.49828   0.06    TF-05-09    824.219
2449571.202 310585.414  817.01612   0.06    TF-05-09    824.219
2449571.202 310585.414  816.56676   0.07    TF-05-09    824.219
2449571.202 310585.414  816.04852   0.05    TF-05-09    824.219
2449571.202 310585.414  815.5598    0.1 TF-05-09    824.219
2449571.202 310585.414  815.10716   0.07    TF-05-09    824.219
2449571.202 310585.414  814.61844   0.1 TF-05-09    824.219
2449571.202 310585.414  814.1494    0.03    TF-05-09    824.219
2449571.202 310585.414  813.64428   0.03    TF-05-09    824.219
2449571.202 310585.414  813.14244   0.07    TF-05-09    824.219
2449571.202 310585.414  812.69964   0.11    TF-05-09    824.219
2449571.202 310585.414  812.60124   -0.01   TF-05-09    824.219
2449564.107 310637.623  824.954 -0.08   TF-05-10    824.954
2449564.107 310637.623  824.49808   2.72    TF-05-10    824.954
2449564.107 310637.623  824.04216   0.26    TF-05-10    824.954
2449564.107 310637.623  823.55344   0.32    TF-05-10    824.954
2449564.107 310637.623  823.12048   0.38    TF-05-10    824.954
2449564.107 310637.623  822.68096   1.52    TF-05-10    824.954
2449564.107 310637.623  822.22504   0.32    TF-05-10    824.954
2449564.107 310637.623  821.7888    0.41    TF-05-10    824.954
2449564.107 310637.623  821.346 0.33    TF-05-10    824.954
2449564.107 310637.623  820.89664   0.2 TF-05-10    824.954
2449564.107 310637.623  820.44728   0.15    TF-05-10    824.954
2449564.107 310637.623  819.99464   0.18    TF-05-10    824.954
2449564.107 310637.623  819.53544   1.25    TF-05-10    824.954
2449564.107 310637.623  819.09592   0.33    TF-05-10    824.954
2449564.107 310637.623  818.66296   0.18    TF-05-10    824.954
2449564.107 310637.623  818.22016   0.14    TF-05-10    824.954
2449564.107 310637.623  817.77408   0.15    TF-05-10    824.954
2449564.107 310637.623  817.32472   0.12    TF-05-10    824.954
2449564.107 310637.623  816.86552   0.16    TF-05-10    824.954
2449564.107 310637.623  816.36696   0.22    TF-05-10    824.954
2449564.107 310637.623  815.93072   0.15    TF-05-10    824.954
2449564.107 310637.623  815.50104   0.19    TF-05-10    824.954
2449564.107 310637.623  815.04512   0.15    TF-05-10    824.954
2449564.107 310637.623  814.57936   0.2 TF-05-10    824.954
2449564.107 310637.623  814.09064   0.2 TF-05-10    824.954
2449564.107 310637.623  813.63472   0.16    TF-05-10    824.954
2449564.107 310637.623  813.18208   0.19    TF-05-10    824.954
2449564.107 310637.623  812.73272   0.1 TF-05-10    824.954
2449564.107 310637.623  812.71304   0.06    TF-05-10    824.954
2448793.611 310632.835  827.347 0.59    TF-06-02    827.347
2448793.611 310632.835  826.855 0.58    TF-06-02    827.347
2448793.611 310632.835  826.38596   0.54    TF-06-02    827.347
2448793.611 310632.835  825.93988   0.34    TF-06-02    827.347
2448793.611 310632.835  825.461 0.6 TF-06-02    827.347
2448793.611 310632.835  825.00508   0.67    TF-06-02    827.347
2448793.611 310632.835  824.46716   0.29    TF-06-02    827.347
2448793.611 310632.835  824.02436   0.42    TF-06-02    827.347
2448793.611 310632.835  823.75868   0.32    TF-06-02    827.347
2448778.715 310569.445  831.771 0.81    TF-06-05    831.771
2448778.715 310569.445  831.27572   0.93    TF-06-05    831.771
2448778.715 310569.445  830.81652   0.83    TF-06-05    831.771
2448778.715 310569.445  830.35404   0.64    TF-06-05    831.771
2448778.715 310569.445  829.87516   0.66    TF-06-05    831.771
2448778.715 310569.445  829.3766    0.57    TF-06-05    831.771
2448778.715 310569.445  828.94364   0.57    TF-06-05    831.771
2448778.715 310569.445  828.42212   0.54    TF-06-05    831.771
2448778.715 310569.445  827.99244   0.58    TF-06-05    831.771
2448778.715 310569.445  827.54964   0.5 TF-06-05    831.771
2448778.715 310569.445  827.08716   0.53    TF-06-05    831.771
2448778.715 310569.445  826.64764   0.6 TF-06-05    831.771
2448778.715 310569.445  826.3098    0.56    TF-06-05    831.771
2448779.633 310518.325  830.879 0.48    TF-06-07    830.879
```

```
2448779.633 310518.325  830.40996   2.16    TF-06-07    830.879
2448779.633 310518.325  829.93764   0.14    TF-06-07    830.879
2448779.633 310518.325  829.49156   -0.15   TF-06-07    830.879
2448779.633 310518.325  829.33084   -0.09   TF-06-07    830.879
2448761.882 310481.101  827 0.21    TF-06-10    827
2448761.882 310481.101  826.53096   1.13    TF-06-10    827
2448761.882 310481.101  826.08816   0.91    TF-06-10    827
2448761.882 310481.101  825.63552   0.63    TF-06-10    827
2448761.882 310481.101  825.16976   1.07    TF-06-10    827
2448761.882 310481.101  824.69416   3.6 TF-06-10    827
2448761.882 310481.101  824.25136   5.06    TF-06-10    827
2448761.882 310481.101  824.1956    8.36    TF-06-10    827
2448761.882 310481.101  823.71344   0.6 TF-06-10    827
2448761.882 310481.101  823.36248   0.38    TF-06-10    827
2448267.232 310552.921  817.557 0.18    TF-07-01    817.557
2448267.232 310552.921  817.12404   0.86    TF-07-01    817.557
2448267.232 310552.921  816.85836   0.95    TF-07-01    817.557
2448252.266 310620.985  817.139 1.48    TF-07-02    817.139
2448252.266 310620.985  816.7782    1.7 TF-07-02    817.139
2448224.305 310577.395  816.653 0.8 TF-07-03    816.653
2448224.305 310577.395  816.20036   1.06    TF-07-03    816.653
2448224.305 310577.395  815.76084   0.72    TF-07-03    816.653
2448224.305 310577.395  815.505 0.61    TF-07-03    816.653
2448186.415 310557.91   816.691 0.85    TF-07-04    816.691
2448186.415 310557.91   816.25476   0.42    TF-07-04    816.691
2448186.415 310557.91   815.78244   0.34    TF-07-04    816.691
2448186.415 310557.91   815.30684   0.37    TF-07-04    816.691
2448186.415 310557.91   814.8706    0.31    TF-07-04    816.691
2448186.415 310557.91   814.83452   0.22    TF-07-04    816.691
2448201.885 310616.565  816.115 1.3 TF-07-05    816.115
2448201.885 310616.565  815.60004   1.34    TF-07-05    816.115
2448201.885 310616.565  815.12444   1.14    TF-07-05    816.115
2448201.885 310616.565  814.67836   0.73    TF-07-05    816.115
2448201.885 310616.565  814.19292   0.96    TF-07-05    816.115
2448201.885 310616.565  813.73044   0.96    TF-07-05    816.115
2448201.885 310616.565  813.28436   0.99    TF-07-05    816.115
2448201.885 310616.565  812.8186    0.84    TF-07-05    816.115
2448201.885 310616.565  812.32988   1.01    TF-07-05    816.115
2448201.885 310616.565  811.85756   0.7 TF-07-05    816.115
2448201.885 310616.565  811.35244   0.69    TF-07-05    816.115
2448201.885 310616.565  810.84076   0.67    TF-07-05    816.115
2448201.885 310616.565  810.3914    0.74    TF-07-05    816.115
2448201.885 310616.565  810.36188   0.71    TF-07-05    816.115
2448189.071 310652.395  814.927 -0.06   TF-07-06    814.927
2448189.071 310652.395  814.47436   0.76    TF-07-06    814.927
2448189.071 310652.395  814.00204   0.51    TF-07-06    814.927
2448189.071 310652.395  813.55924   0.36    TF-07-06    814.927
2448189.071 310652.395  813.25092   0.21    TF-07-06    814.927
2448154.285 310608.564  815.339 0.43    TF-07-07    815.339
2448154.285 310608.564  814.88636   0.86    TF-07-07    815.339
2448154.285 310608.564  814.45668   0.62    TF-07-07    815.339
2448154.285 310608.564  814.02372   0.77    TF-07-07    815.339
2448154.285 310608.564  813.53172   0.6 TF-07-07    815.339
2448154.285 310608.564  813.09876   0.59    TF-07-07    815.339
2448154.285 310608.564  812.63956   0.63    TF-07-07    815.339
2448154.285 310608.564  812.18692   0.72    TF-07-07    815.339
2448154.285 310608.564  811.75068   0.64    TF-07-07    815.339
2448154.285 310608.564  811.26196   0.68    TF-07-07    815.339
2448154.285 310608.564  810.7962    0.65    TF-07-07    815.339
2448154.285 310608.564  810.35668   0.66    TF-07-07    815.339
2448154.285 310608.564  809.86468   0.55    TF-07-07    815.339
2448154.285 310608.564  809.435 0.57    TF-07-07    815.339
2448154.285 310608.564  808.96268   0.54    TF-07-07    815.339
2448154.285 310608.564  808.52316   0.59    TF-07-07    815.339
```

```
2448154.285 310608.564  808.02132   0.59    TF-07-07    815.339
2448154.285 310608.564  807.5654    0.59    TF-07-07    815.339
2448154.285 310608.564  807.10948   0.63    TF-07-07    815.339
2448154.285 310608.564  806.6306    0.53    TF-07-07    815.339
2448154.285 310608.564  806.19108   0.52    TF-07-07    815.339
2448154.285 310608.564  805.75484   0.55    TF-07-07    815.339
2448154.285 310608.564  805.27268   0.56    TF-07-07    815.339
2448154.285 310608.564  804.80036   0.57    TF-07-07    815.339
2448154.285 310608.564  804.35428   0.61    TF-07-07    815.339
2448154.285 310608.564  803.86884   0.59    TF-07-07    815.339
2448154.285 310608.564  803.35388   0.56    TF-07-07    815.339
2448154.285 310608.564  802.90124   0.57    TF-07-07    815.339
2448154.285 310608.564  802.4486    0.52    TF-07-07    815.339
2448154.285 310608.564  802.00252   0.62    TF-07-07    815.339
2448154.285 310608.564  801.56628   0.58    TF-07-07    815.339
2448154.285 310608.564  801.13004   0.57    TF-07-07    815.339
2448154.285 310608.564  800.69052   0.61    TF-07-07    815.339
2448154.285 310608.564  800.25428   0.64    TF-07-07    815.339
2448154.285 310608.564  799.76884   0.54    TF-07-07    815.339
2448154.285 310608.564  799.47036   0.66    TF-07-07    815.339
2448186.086 310697.214  814.277 0.16    TF-07-08    814.277
2448186.086 310697.214  813.78828   0.38    TF-07-08    814.277
2448186.086 310697.214  813.34876   0.36    TF-07-08    814.277
2448186.086 310697.214  812.9158    0.45    TF-07-08    814.277
2448186.086 310697.214  812.45332   0.59    TF-07-08    814.277
2448186.086 310697.214  812.02364   0.4 TF-07-08    814.277
2448186.086 310697.214  811.55788   0.42    TF-07-08    814.277
2448186.086 310697.214  811.08884   0.38    TF-07-08    814.277
2448186.086 310697.214  810.59356   0.9 TF-07-08    814.277
2448186.086 310697.214  810.19012   2.14    TF-07-08    814.277
2448186.086 310697.214  809.72436   1.48    TF-07-08    814.277
2448186.086 310697.214  809.26516   1.45    TF-07-08    814.277
2448186.086 310697.214  808.82564   1.44    TF-07-08    814.277
2448186.086 310697.214  808.34348   0.71    TF-07-08    814.277
2448186.086 310697.214  807.91052   0.39    TF-07-08    814.277
2448186.086 310697.214  807.42508   0.13    TF-07-08    814.277
2448186.086 310697.214  806.96588   0.23    TF-07-08    814.277
2448186.086 310697.214  806.48372   0.14    TF-07-08    814.277
2448186.086 310697.214  805.99828   0.23    TF-07-08    814.277
2448186.086 310697.214  805.52924   0.18    TF-07-08    814.277
2448186.086 310697.214  805.03068   0.18    TF-07-08    814.277
2448186.086 310697.214  804.53212   0.17    TF-07-08    814.277
2448186.086 310697.214  804.03684   0.18    TF-07-08    814.277
2448186.086 310697.214  803.55468   0.2 TF-07-08    814.277
2448186.086 310697.214  803.043 0.13    TF-07-08    814.277
2448186.086 310697.214  802.5674    0.14    TF-07-08    814.277
2448186.086 310697.214  802.06884   0.11    TF-07-08    814.277
2448186.086 310697.214  801.66212   0.18    TF-07-08    814.277
2448140.619 310662.398  814.131 0.4 TF-07-09    814.131
2448140.619 310662.398  813.64228   0.2 TF-07-09    814.131
2448140.619 310662.398  813.18308   0.32    TF-07-09    814.131
2448140.619 310662.398  812.74028   0.37    TF-07-09    814.131
2448140.619 310662.398  812.3106    0.35    TF-07-09    814.131
2448140.619 310662.398  811.84484   0.54    TF-07-09    814.131
2448140.619 310662.398  811.41516   0.69    TF-07-09    814.131
2448140.619 310662.398  810.96908   1.1 TF-07-09    814.131
2448140.619 310662.398  810.48036   1   TF-07-09    814.131
2448140.619 310662.398  810.3098    0.15    TF-07-09    814.131
2448140.619 310662.398  810.1786    0.14    TF-07-09    814.131
2448140.619 310662.398  810.00804   1.18    TF-07-09    814.131
2448140.619 310662.398  809.53244   0.62    TF-07-09    814.131
2448140.619 310662.398  809.27988   0.13    TF-07-09    814.131
2448140.619 310662.398  808.79116   0.13    TF-07-09    814.131
2448140.619 310662.398  808.3418    0.33    TF-07-09    814.131
```

```
2448140.619 310662.398  807.88916   0.3 TF-07-09    814.131
2448140.619 310662.398  807.41028   0.09    TF-07-09    814.131
2448140.619 310662.398  807.23644   0.07    TF-07-09    814.131
2448140.619 310662.398  806.78708   0.44    TF-07-09    814.131
2448140.619 310662.398  806.44268   0.9 TF-07-09    814.131
2448140.619 310662.398  806.02284   0.05    TF-07-09    814.131
2448140.619 310662.398  805.56036   0.1 TF-07-09    814.131
2448140.619 310662.398  805.49804   0.04    TF-07-09    814.131
2448140.619 310662.398  805.3078    0.01    TF-07-09    814.131
2448140.619 310662.398  804.81252   0.05    TF-07-09    814.131
2448140.619 310662.398  804.3238    -0.03   TF-07-09    814.131
2448140.619 310662.398  803.86788   0.08    TF-07-09    814.131
2448140.619 310662.398  803.4054    0.13    TF-07-09    814.131
2448140.619 310662.398  802.9462    0.1 TF-07-09    814.131
2448140.619 310662.398  802.50996   0.02    TF-07-09    814.131
2448140.619 310662.398  802.50668   0.1 TF-07-09    814.131
2448140.619 310662.398  802.49684   0.05    TF-07-09    814.131
2448140.619 310662.398  802.47388   0.02    TF-07-09    814.131
2448140.619 310662.398  802.34596   0   TF-07-09    814.131
2448140.619 310662.398  802.24756   0.02    TF-07-09    814.131
2448140.619 310662.398  801.79492   0.05    TF-07-09    814.131
2448140.619 310662.398  801.33244   -0.01   TF-07-09    814.131
2448140.619 310662.398  800.87652   0.14    TF-07-09    814.131
2448140.619 310662.398  800.77156   0   TF-07-09    814.131
2448140.619 310662.398  800.66332   0.03    TF-07-09    814.131
2448140.619 310662.398  800.3058    0.02    TF-07-09    814.131
2448140.619 310662.398  799.83676   0.11    TF-07-09    814.131
2448140.619 310662.398  799.7318    0.15    TF-07-09    814.131
2448140.619 310662.398  799.65964   0.1 TF-07-09    814.131
2448140.619 310662.398  799.54812   0   TF-07-09    814.131
2448140.619 310662.398  799.43988   0.08    TF-07-09    814.131
2448140.619 310662.398  798.99052   0.02    TF-07-09    814.131
2448140.619 310662.398  798.52476   0.01    TF-07-09    814.131
2448140.619 310662.398  798.387 0.08    TF-07-09    814.131
2448104.506 310604.818  814.234 0.43    TF-07-10    814.234
2448104.506 310604.818  813.74528   0.38    TF-07-10    814.234
2448104.506 310604.818  813.53864   0.26    TF-07-10    814.234
2448104.506 310604.818  813.01056   0.36    TF-07-10    814.234
2448104.506 310604.818  812.55792   0.33    TF-07-10    814.234
2448104.506 310604.818  812.10856   0.2 TF-07-10    814.234
2448104.506 310604.818  811.67888   0.23    TF-07-10    814.234
2448104.506 310604.818  811.35088   0.17    TF-07-10    814.234
2448104.506 310604.818  810.91464   0.19    TF-07-10    814.234
2448104.506 310604.818  810.40952   0.29    TF-07-10    814.234
2448104.506 310604.818  810.09136   0.16    TF-07-10    814.234
2448104.506 310604.818  809.73712   0.13    TF-07-10    814.234
2448104.506 310604.818  809.33368   0.09    TF-07-10    814.234
2448104.506 310604.818  808.89744   0.14    TF-07-10    814.234
2448104.506 310604.818  808.38248   0.16    TF-07-10    814.234
2448104.506 310604.818  807.90032   0.08    TF-07-10    814.234
2448104.506 310604.818  807.58872   0.07    TF-07-10    814.234
2448104.506 310604.818  807.43784   0.04    TF-07-10    814.234
2448104.506 310604.818  807.09016   0.02    TF-07-10    814.234
2448104.506 310604.818  806.8376    0.25    TF-07-10    814.234
2448104.506 310604.818  806.42104   0.01    TF-07-10    814.234
2448104.506 310604.818  806.40464   0.1 TF-07-10    814.234
2448104.506 310604.818  806.3784    0.05    TF-07-10    814.234
2448104.506 310604.818  806.36856   0   TF-07-10    814.234
2448104.506 310604.818  806.30952   0.06    TF-07-10    814.234
2448104.506 310604.818  805.87984   0.09    TF-07-10    814.234
2448104.506 310604.818  805.41408   0.11    TF-07-10    814.234
2448104.506 310604.818  804.92864   0.16    TF-07-10    814.234
2448104.506 310604.818  804.49568   0.18    TF-07-10    814.234
2448104.506 310604.818  804.066 0.16    TF-07-10    814.234
```

```
2448104.506 310604.818  803.62648   0.19    TF-07-10    814.234
2448104.506 310604.818  803.18368   0.22    TF-07-10    814.234
2448104.506 310604.818  802.74744   0.22    TF-07-10    814.234
2448104.506 310604.818  802.31448   0.06    TF-07-10    814.234
2448104.506 310604.818  801.87824   0.18    TF-07-10    814.234
2448104.506 310604.818  801.4092    0.15    TF-07-10    814.234
2448104.506 310604.818  800.89424   0.14    TF-07-10    814.234
2448104.506 310604.818  800.458 0.14    TF-07-10    814.234
2448104.506 310604.818  800.02176   0.17    TF-07-10    814.234
2448104.506 310604.818  799.58224   0.17    TF-07-10    814.234
2448104.506 310604.818  799.13288   0.19    TF-07-10    814.234
2448104.506 310604.818  798.7032    0.12    TF-07-10    814.234
2448104.506 310604.818  798.22432   0.16    TF-07-10    814.234
2448104.506 310604.818  798.03408   0.18    TF-07-10    814.234
2448104.506 310604.818  797.8504    0.01    TF-07-10    814.234
2449187.01  310119.442  827.119 0.97    TF-08-01    827.119
2449187.01  310119.442  826.66964   1.29    TF-08-01    827.119
2449187.01  310119.442  826.21044   0.99    TF-08-01    827.119
2449187.01  310119.442  825.75124   0.98    TF-08-01    827.119
2449187.01  310119.442  825.30516   1.29    TF-08-01    827.119
2449187.01  310119.442  824.84596   1.23    TF-08-01    827.119
2449187.01  310119.442  824.413 1.14    TF-08-01    827.119
2449187.01  310119.442  823.94396   0.98    TF-08-01    827.119
2449187.01  310119.442  823.46836   0.82    TF-08-01    827.119
2449187.01  310119.442  823.01244   1.05    TF-08-01    827.119
2449187.01  310119.442  822.50404   0.97    TF-08-01    827.119
2449187.01  310119.442  822.0678    1.06    TF-08-01    827.119
2449187.01  310119.442  821.56596   1.22    TF-08-01    827.119
2449187.01  310119.442  821.28716   0.7 TF-08-01    827.119
2449207.361 310080.222  826.134 1.21    TF-08-03    826.134
2449207.361 310080.222  825.63216   0.31    TF-08-03    826.134
2449207.361 310080.222  825.1828    0.35    TF-08-03    826.134
2449207.361 310080.222  825.04832   -0.04   TF-08-03    826.134
2449233.435 310046.093  826.242 0.85    TF-08-05    826.242
2449233.435 310046.093  825.81232   0.44    TF-08-05    826.242
2449233.435 310046.093  825.33344   0.55    TF-08-05    826.242
2449233.435 310046.093  824.83488   0.53    TF-08-05    826.242
2449233.435 310046.093  824.36256   0.52    TF-08-05    826.242
2449233.435 310046.093  823.85416   0.53    TF-08-05    826.242
2449233.435 310046.093  823.34904   0.39    TF-08-05    826.242
2449233.435 310046.093  822.91608   0.15    TF-08-05    826.242
2449233.435 310046.093  822.40768   0.27    TF-08-05    826.242
2449233.435 310046.093  821.92552   0.42    TF-08-05    826.242
2449233.435 310046.093  821.76152   0.57    TF-08-05    826.242
2449272.031 309995.311  825.291 -1.03   TF-08-09    825.291
2449272.031 309995.311  824.85804   -3.86   TF-08-09    825.291
2449272.031 309995.311  824.40212   -1.43   TF-08-09    825.291
2449272.031 309995.311  823.93964   -4.76   TF-08-09    825.291
2449272.031 309995.311  823.49356   0.29    TF-08-09    825.291
2449272.031 309995.311  823.0114    -0.66   TF-08-09    825.291
2449272.031 309995.311  822.56204   -3  TF-08-09    825.291
2449272.031 309995.311  822.09956   -2.51   TF-08-09    825.291
2449272.031 309995.311  821.63052   -2.72   TF-08-09    825.291
2449272.031 309995.311  821.19428   -2.92   TF-08-09    825.291
2449272.031 309995.311  820.71868   -3.23   TF-08-09    825.291
2449272.031 309995.311  820.23652   -1.47   TF-08-09    825.291
2449272.031 309995.311  819.75764   -1.14   TF-08-09    825.291
2449272.031 309995.311  819.27548   -3.56   TF-08-09    825.291
2449272.031 309995.311  818.78676   -3.4    TF-08-09    825.291
2449272.031 309995.311  818.29476   -2.83   TF-08-09    825.291
2449272.031 309995.311  817.829 -4.28   TF-08-09    825.291
2449272.031 309995.311  817.32388   -2.56   TF-08-09    825.291
2449272.031 309995.311  816.82204   -3.5    TF-08-09    825.291
2449272.031 309995.311  816.3858    -1.36   TF-08-09    825.291
```


014966

```
2449272.031 309995.311  815.95284   -0.56   TF-08-09    825.291
2449272.031 309995.311  815.44444   -1.7    TF-08-09    825.291
2449272.031 309995.311  814.92948   -3.41   TF-08-09    825.291
2449272.031 309995.311  814.4178    -1.37   TF-08-09    825.291
2449272.031 309995.311  813.93236   -1.93   TF-08-09    825.291
2449272.031 309995.311  813.41412   -0.73   TF-08-09    825.291
2449272.031 309995.311  812.909 0.13    TF-08-09    825.291
2449272.031 309995.311  812.45964   -1.17   TF-08-09    825.291
2449272.031 309995.311  812.23988   -1.49   TF-08-09    825.291
2448795.829 309706.976  801.897 0.23    TF-09-01    801.897
2448795.829 309706.976  801.57556   2.9 TF-09-01    801.897
2448795.829 309706.976  801.10652   0.16    TF-09-01    801.897
2448795.829 309706.976  800.61124   0.24    TF-09-01    801.897
2448795.829 309706.976  800.17828   0.16    TF-09-01    801.897
2448795.829 309706.976  799.69284   0.05    TF-09-01    801.897
2448795.829 309706.976  799.64036   0.02    TF-09-01    801.897
2448795.829 309706.976  799.2074    0.22    TF-09-01    801.897
2448795.829 309706.976  798.76132   0.65    TF-09-01    801.897
2448795.829 309706.976  798.56124   0.69    TF-09-01    801.897
2448738.891 309660.904  801.663 0.05    TF-09-02    801.663
2448738.891 309660.904  801.34812   3.2 TF-09-02    801.663
2448738.891 309660.904  800.88892   0.17    TF-09-02    801.663
2448738.891 309660.904  800.42316   0.08    TF-09-02    801.663
2448738.891 309660.904  799.94756   0.1 TF-09-02    801.663
2448738.891 309660.904  799.84916   0.15    TF-09-02    801.663
2448792.882 309657.54   796.502 0.2 TF-09-03    796.502
2448792.882 309657.54   796.16744   2.85    TF-09-03    796.502
2448792.882 309657.54   795.67872   0.13    TF-09-03    796.502
2448792.882 309657.54   795.2064    0.08    TF-09-03    796.502
2448792.882 309657.54   794.96696   0.02    TF-09-03    796.502
2448792.882 309657.54   794.534 0.15    TF-09-03    796.502
2448798.306 309603.061  801.696 -0.13   TF-09-05    801.696
2448798.306 309603.061  801.19744   0.74    TF-09-05    801.696
2448798.306 309603.061  800.7448    0.03    TF-09-05    801.696
2448798.306 309603.061  800.30528   -0.02   TF-09-05    801.696
2448798.306 309603.061  799.8428    -0.03   TF-09-05    801.696
2448798.306 309603.061  799.37048   -0.08   TF-09-05    801.696
2448798.306 309603.061  799.33112   0.19    TF-09-05    801.696
2448772.112 309585.383  801.42192   0.49    TF-09-06    801.458
2448772.112 309585.383  801.16608   7.51    TF-09-06    801.458
2448772.112 309585.383  800.7364    0.35    TF-09-06    801.458
2448772.112 309585.383  800.30344   0.3 TF-09-06    801.458
2448772.112 309585.383  799.84096   0.25    TF-09-06    801.458
2448772.112 309585.383  799.56872   0.12    TF-09-06    801.458
2448813.456 309568.226  800.241 0.27    TF-09-07    800.241
2448813.456 309568.226  799.80148   0.12    TF-09-07    800.241
2448813.456 309568.226  799.28652   0.15    TF-09-07    800.241
2448813.456 309568.226  798.7814    0.04    TF-09-07    800.241
2448813.456 309568.226  798.26972   0.1 TF-09-07    800.241
2448813.456 309568.226  797.8302    0.06    TF-09-07    800.241
2448813.456 309568.226  797.39068   0.01    TF-09-07    800.241
2448813.456 309568.226  796.89212   0.04    TF-09-07    800.241
2448813.456 309568.226  796.45588   0.11    TF-09-07    800.241
2448813.456 309568.226  795.96716   0.06    TF-09-07    800.241
2448813.456 309568.226  795.5342    0.04    TF-09-07    800.241
2448813.456 309568.226  795.38988   0.02    TF-09-07    800.241
2448740.107 309556.771  798.242 0.66    TF-09-08    798.242
2448740.107 309556.771  797.77952   0.31    TF-09-08    798.242
2448740.107 309556.771  797.33016   0.08    TF-09-08    798.242
2448740.107 309556.771  797.2744    0.04    TF-09-08    798.242
2448740.107 309556.771  796.82176   0.11    TF-09-08    798.242
2448740.107 309556.771  796.36912   0.16    TF-09-08    798.242
2448740.107 309556.771  795.8968    0.38    TF-09-08    798.242
2448740.107 309556.771  795.7492    0.34    TF-09-08    798.242
```

```
2448785.03  309540.084  799.272 0.41    TF-09-09    799.272
2448785.03  309540.084  799.05224   3.62    TF-09-09    799.272
2448785.03  309540.084  798.5668    0.34    TF-09-09    799.272
2448785.03  309540.084  798.40608   0.18    TF-09-09    799.272
2448785.03  309540.084  797.96656   0.36    TF-09-09    799.272
2448785.03  309540.084  797.44504   0.27    TF-09-09    799.272
2448785.03  309540.084  796.976 0.22    TF-09-09    799.272
2448785.03  309540.084  796.49712   0.27    TF-09-09    799.272
2448785.03  309540.084  796.05104   0.45    TF-09-09    799.272
2448785.03  309540.084  795.57544   0.41    TF-09-09    799.272
2448785.03  309540.084  795.08016   0.51    TF-09-09    799.272
2448785.03  309540.084  794.6144    0.52    TF-09-09    799.272
2448785.03  309540.084  794.1552    0.57    TF-09-09    799.272
2448785.03  309540.084  793.68944   0.61    TF-09-09    799.272
2448785.03  309540.084  793.38768   0.53    TF-09-09    799.272
2448204.371 310099.857  800.292 0.99    TF-10-01    800.292
2448204.371 310099.857  799.80328   0.86    TF-10-01    800.292
2448204.371 310099.857  799.34408   0.86    TF-10-01    800.292
2448204.371 310099.857  798.91112   0.83    TF-10-01    800.292
2448204.371 310099.857  798.44536   0.81    TF-10-01    800.292
2448204.371 310099.857  798.01568   0.9 TF-10-01    800.292
2448204.371 310099.857  797.78608   0.82    TF-10-01    800.292
2448154.647 310040.177  798.121 0.7 TF-10-02    798.121
2448154.647 310040.177  797.67164   0.53    TF-10-02    798.121
2448154.647 310040.177  797.22228   0.51    TF-10-02    798.121
2448154.647 310040.177  796.75324   0.7 TF-10-02    798.121
2448154.647 310040.177  796.27436   0.63    TF-10-02    798.121
2448154.647 310040.177  795.83484   0.67    TF-10-02    798.121
2448154.647 310040.177  795.48388   0.64    TF-10-02    798.121
2448145.458 309891.448  795.259 0.85    TF-10-03    795.259
2448145.458 309891.448  794.78012   0.95    TF-10-03    795.259
2448145.458 309891.448  794.30124   0.83    TF-10-03    795.259
2448145.458 309891.448  793.86172   0.58    TF-10-03    795.259
2448145.458 309891.448  793.41236   0.67    TF-10-03    795.259
2448145.458 309891.448  792.94332   0.68    TF-10-03    795.259
2448145.458 309891.448  792.46772   0.7 TF-10-03    795.259
2448145.458 309891.448  791.979 0.76    TF-10-03    795.259
2448145.458 309891.448  791.8314    0.7 TF-10-03    795.259
2448243.299 309816.678  796.109 0.58    TF-10-04    796.109
2448243.299 309816.678  795.65964   1.36    TF-10-04    796.109
2448243.299 309816.678  795.22012   0.87    TF-10-04    796.109
2448243.299 309816.678  794.7314    0.36    TF-10-04    796.109
2448243.299 309816.678  794.26892   0.62    TF-10-04    796.109
2448243.299 309816.678  793.77364   0.44    TF-10-04    796.109
2448243.299 309816.678  793.34068   0.53    TF-10-04    796.109
2448243.299 309816.678  793.06188   0.89    TF-10-04    796.109
2448402.145 309828.871  797.771 1.09    TF-10-05    797.771
2448402.145 309828.871  797.23308   1.03    TF-10-05    797.771
2448402.145 309828.871  797.10844   0.95    TF-10-05    797.771
2448391.358 309921.771  802.1046    0.43    TF-10-06    802.121
2448391.358 309921.771  802.02916   0.01    TF-10-06    802.121
2448391.358 309921.771  801.83236   1.56    TF-10-06    802.121
2448391.358 309921.771  801.34364   0.22    TF-10-06    802.121
2448391.358 309921.771  800.891 2.1 TF-10-06    802.121
2448391.358 309921.771  800.36948   2.79    TF-10-06    802.121
2448391.358 309921.771  799.88076   4.44    TF-10-06    802.121
2448391.358 309921.771  799.44124   6.84    TF-10-06    802.121
2448391.358 309921.771  799.3166    7.1 TF-10-06    802.121
2448391.358 309921.771  798.85084   2.03    TF-10-06    802.121
2448391.358 309921.771  798.39492   0.54    TF-10-06    802.121
2448391.358 309921.771  798.06692   0.22    TF-10-06    802.121
2448391.358 309921.771  797.60116   2.73    TF-10-06    802.121
2448391.358 309921.771  797.447 4.26    TF-10-06    802.121
2448319.104 309952.357  801.576 0.21    TF-10-07    801.576
```

```
2448319.104 309952.357  801.0676    0.47    TF-10-07    801.576
2448319.104 309952.357  800.63792   0.24    TF-10-07    801.576
2448319.104 309952.357  800.15248   0.2 TF-10-07    801.576
2448319.104 309952.357  799.7064    0.2 TF-10-07    801.576
2448319.104 309952.357  799.21112   0.48    TF-10-07    801.576
2448319.104 309952.357  798.75192   0.47    TF-10-07    801.576
2448319.104 309952.357  798.28288   8.67    TF-10-07    801.576
2448319.104 309952.357  797.79088   13.89   TF-10-07    801.576
2448319.104 309952.357  797.59736   11.94   TF-10-07    801.576
2448243.58  309965.418  795.55  -0.19   TF-10-08    795.55
2448243.58  309965.418  795.08752   0.73    TF-10-08    795.55
2448243.58  309965.418  794.62832   0.09    TF-10-08    795.55
2448243.58  309965.418  794.1724    0.26    TF-10-08    795.55
2448243.58  309965.418  793.68696   0.25    TF-10-08    795.55
2448243.58  309965.418  793.25072   0.29    TF-10-08    795.55
2448243.58  309965.418  792.80464   0.4 TF-10-08    795.55
2448243.58  309965.418  792.47008   1.35    TF-10-08    795.55
2448317.917 309925.765  803.598 0.66    TF-10-09    803.598
2448317.917 309925.765  803.15848   0.79    TF-10-09    803.598
2448317.917 309925.765  802.65336   0.38    TF-10-09    803.598
2448317.917 309925.765  802.13184   0.48    TF-10-09    803.598
2448317.917 309925.765  801.70216   0.48    TF-10-09    803.598
2448317.917 309925.765  801.27248   3.62    TF-10-09    803.598
2448317.917 309925.765  800.7936    1.76    TF-10-09    803.598
2448317.917 309925.765  800.2852    7.97    TF-10-09    803.598
2448317.917 309925.765  799.79648   6.18    TF-10-09    803.598
2448317.917 309925.765  799.3176    6.62    TF-10-09    803.598
2448317.917 309925.765  798.86168   3.13    TF-10-09    803.598
2448317.917 309925.765  798.76  5.95    TF-10-09    803.598
2447722.759 310222.789  788.668 0.45    TF-11-01    788.668
2447722.759 310222.789  788.62208   0.07    TF-11-01    788.668
2447722.759 310222.789  788.3236    0.91    TF-11-01    788.668
2447722.759 310222.789  788.094 0.03    TF-11-01    788.668
2447722.759 310222.789  787.62496   0.38    TF-11-01    788.668
2447722.759 310222.789  787.18544   0.03    TF-11-01    788.668
2447722.759 310222.789  786.70984   -0.1    TF-11-01    788.668
2447722.759 310222.789  786.50648   0.47    TF-11-01    788.668
2447722.759 310222.789  786.01776   0.25    TF-11-01    788.668
2447722.759 310222.789  785.53232   0.1 TF-11-01    788.668
2447722.759 310222.789  785.04032   0.1 TF-11-01    788.668
2447722.759 310222.789  784.94848   0.04    TF-11-01    788.668
2447722.759 310222.789  784.85664   0   TF-11-01    788.668
2447722.759 310222.789  784.63688   0.02    TF-11-01    788.668
2447722.759 310222.789  784.3876    0.61    TF-11-01    788.668
2447722.759 310222.789  783.9448    0.17    TF-11-01    788.668
2447722.759 310222.789  783.44952   -0.05   TF-11-01    788.668
2447722.759 310222.789  783.28552   0.01    TF-11-01    788.668
2447722.759 310222.789  782.7968    -0.5    TF-11-01    788.668
2447722.759 310222.789  782.28184   0.11    TF-11-01    788.668
2447722.759 310222.789  781.76688   -0.06   TF-11-01    788.668
2447722.759 310222.789  781.25192   0.32    TF-11-01    788.668
2447722.759 310222.789  781.18632   1.5 TF-11-01    788.668
2447722.759 310222.789  780.78616   0.04    TF-11-01    788.668
2447722.759 310222.789  780.72056   0.47    TF-11-01    788.668
2447722.759 310222.789  780.42208   0.04    TF-11-01    788.668
2447722.759 310222.789  779.96616   0.1 TF-11-01    788.668
2447722.759 310222.789  779.46432   0.38    TF-11-01    788.668
2447722.759 310222.789  779.3692    0.46    TF-11-01    788.668
2447722.759 310222.789  778.93952   0.32    TF-11-01    788.668
2447722.759 310222.789  778.48032   0.37    TF-11-01    788.668
2447722.759 310222.789  778.04736   0.43    TF-11-01    788.668
2447722.759 310222.789  777.58816   0.4 TF-11-01    788.668
2447722.759 310222.789  777.14864   0.44    TF-11-01    788.668
2447722.759 310222.789  776.68944   0.36    TF-11-01    788.668
```


014969

```
2447722.759 310222.789  776.16464   0.15    TF-11-01    788.668
2447722.759 310222.789  775.72512   0.4 TF-11-01    788.668
2447722.759 310222.789  775.2528    0.35    TF-11-01    788.668
2447722.759 310222.789  774.80672   0.47    TF-11-01    788.668
2447722.759 310222.789  774.35736   0.41    TF-11-01    788.668
2447722.759 310222.789  773.92768   0.43    TF-11-01    788.668
2447722.759 310222.789  773.48488   0.44    TF-11-01    788.668
2447722.759 310222.789  773.0224    0.41    TF-11-01    788.668
2447722.759 310222.789  772.58616   0.39    TF-11-01    788.668
2447722.759 310222.789  772.11712   0.43    TF-11-01    788.668
2447722.759 310222.789  771.67104   0.39    TF-11-01    788.668
2447722.759 310222.789  771.19872   0.42    TF-11-01    788.668
2447722.759 310222.789  770.76904   0.4 TF-11-01    788.668
2447722.759 310222.789  770.3328    0.35    TF-11-01    788.668
2447722.759 310222.789  769.89656   0.13    TF-11-01    788.668
2447722.759 310222.789  769.4144    0.42    TF-11-01    788.668
2447722.759 310222.789  768.93552   0.44    TF-11-01    788.668
2447722.759 310222.789  768.48288   0.4 TF-11-01    788.668
2447722.759 310222.789  768.00072   0.43    TF-11-01    788.668
2447722.759 310222.789  767.50544   0.53    TF-11-01    788.668
2447722.759 310222.789  766.97736   0.47    TF-11-01    788.668
2447722.759 310222.789  766.50176   0.5 TF-11-01    788.668
2447722.759 310222.789  766.0524    0.57    TF-11-01    788.668
2447722.759 310222.789  765.56368   0.35    TF-11-01    788.668
2447722.759 310222.789  765.11104   0.49    TF-11-01    788.668
2447722.759 310222.789  764.61904   0.39    TF-11-01    788.668
2447722.759 310222.789  764.18936   0.52    TF-11-01    788.668
2447722.759 310222.789  763.7236    0.63    TF-11-01    788.668
2447722.759 310222.789  763.2316    0.59    TF-11-01    788.668
2447722.759 310222.789  762.77896   0.52    TF-11-01    788.668
2447722.759 310222.789  762.28368   0.54    TF-11-01    788.668
2447722.759 310222.789  761.82448   0.51    TF-11-01    788.668
2447722.759 310222.789  761.38496   0.45    TF-11-01    788.668
2447722.759 310222.789  760.93232   0.47    TF-11-01    788.668
2447722.759 310222.789  760.46656   0.5 TF-11-01    788.668
2447722.759 310222.789  760.02704   0.51    TF-11-01    788.668
2447722.759 310222.789  759.54816   0.47    TF-11-01    788.668
2447722.759 310222.789  759.10208   0.53    TF-11-01    788.668
2447722.759 310222.789  758.61992   0.52    TF-11-01    788.668
2447722.759 310222.789  758.08856   0.62    TF-11-01    788.668
2447722.759 310222.789  757.62608   0.55    TF-11-01    788.668
2447722.759 310222.789  757.16688   0.48    TF-11-01    788.668
2447722.759 310222.789  756.71752   0.62    TF-11-01    788.668
2447722.759 310222.789  756.21896   0.56    TF-11-01    788.668
2447722.759 310222.789  755.75648   0.61    TF-11-01    788.668
2447722.759 310222.789  755.25464   0.52    TF-11-01    788.668
2447722.759 310222.789  754.75608   0.39    TF-11-01    788.668
2447722.759 310222.789  754.68392   0.62    TF-11-01    788.668
2447722.759 310222.789  754.24112   0.45    TF-11-01    788.668
2447722.759 310222.789  753.79832   0.35    TF-11-01    788.668
2447722.759 310222.789  753.29976   0.42    TF-11-01    788.668
2447722.759 310222.789  752.84056   0.48    TF-11-01    788.668
2447722.759 310222.789  752.44696   0.03    TF-11-01    788.668
2447722.759 310222.789  751.94184   0.36    TF-11-01    788.668
2447722.759 310222.789  751.86968   0.42    TF-11-01    788.668
2447722.759 310222.789  751.3744    0.31    TF-11-01    788.668
2447722.759 310222.789  750.9152    0.25    TF-11-01    788.668
2447722.759 310222.789  750.46256   0.28    TF-11-01    788.668
2447722.759 310222.789  749.964 0.46    TF-11-01    788.668
2447722.759 310222.789  749.50152   0.39    TF-11-01    788.668
2447722.759 310222.789  748.99968   0.17    TF-11-01    788.668
2447722.759 310222.789  748.53064   0.07    TF-11-01    788.668
2447722.759 310222.789  748.078 0.11    TF-11-01    788.668
2447722.759 310222.789  747.99928   0.26    TF-11-01    788.668
```

```
2447696.546 310191.777  788.751 0.84    TF-11-02    788.751
2447696.546 310191.777  788.27212   1.4 TF-11-02    788.751
2447696.546 310191.777  787.80636   0.96    TF-11-02    788.751
2447696.546 310191.777  787.33404   1   TF-11-02    788.751
2447696.546 310191.777  786.8814    0.9 TF-11-02    788.751
2447696.546 310191.777  786.37628   0.85    TF-11-02    788.751
2447696.546 310191.777  785.94004   0.78    TF-11-02    788.751
2447696.546 310191.777  785.43492   0.79    TF-11-02    788.751
2447696.546 310191.777  784.9298    0.79    TF-11-02    788.751
2447696.546 310191.777  784.48372   0.82    TF-11-02    788.751
2447696.546 310191.777  783.97204   0.74    TF-11-02    788.751
2447696.546 310191.777  783.5358    0.61    TF-11-02    788.751
2447696.546 310191.777  783.03724   0.67    TF-11-02    788.751
2447696.546 310191.777  782.519 0.62    TF-11-02    788.751
2447696.546 310191.777  782.00404   0.58    TF-11-02    788.751
2447696.546 310191.777  781.48252   0.57    TF-11-02    788.751
2447696.546 310191.777  780.95772   0.59    TF-11-02    788.751
2447696.546 310191.777  780.46244   0.63    TF-11-02    788.751
2447696.546 310191.777  779.94092   0.57    TF-11-02    788.751
2447696.546 310191.777  779.51124   0.68    TF-11-02    788.751
2447696.546 310191.777  779.07828   0.61    TF-11-02    788.751
2447696.546 310191.777  778.60924   0.6 TF-11-02    788.751
2447696.546 310191.777  778.14348   0.49    TF-11-02    788.751
2447696.546 310191.777  777.67772   0.64    TF-11-02    788.751
2447696.546 310191.777  777.2054    0.46    TF-11-02    788.751
2447696.546 310191.777  776.69372   0.56    TF-11-02    788.751
2447696.546 310191.777  776.21156   0.77    TF-11-02    788.751
2447696.546 310191.777  775.7786    0.7 TF-11-02    788.751
2447696.546 310191.777  775.303 0.65    TF-11-02    788.751
2447696.546 310191.777  774.87004   0.72    TF-11-02    788.751
2447696.546 310191.777  774.39444   0.76    TF-11-02    788.751
2447696.546 310191.777  773.94836   0.93    TF-11-02    788.751
2447696.546 310191.777  773.4498    0.85    TF-11-02    788.751
2447696.546 310191.777  772.96436   0.73    TF-11-02    788.751
2447696.546 310191.777  772.515 1.06    TF-11-02    788.751
2447696.546 310191.777  772.05908   0.63    TF-11-02    788.751
2447696.546 310191.777  771.57036   0.54    TF-11-02    788.751
2447696.546 310191.777  771.08164   0.61    TF-11-02    788.751
2447696.546 310191.777  770.62572   0.65    TF-11-02    788.751
2447696.546 310191.777  770.16324   0.71    TF-11-02    788.751
2447696.546 310191.777  769.7106    0.86    TF-11-02    788.751
2447696.546 310191.777  769.27436   0.92    TF-11-02    788.751
2447696.546 310191.777  768.83812   0.89    TF-11-02    788.751
2447696.546 310191.777  768.3658    0.84    TF-11-02    788.751
2447696.546 310191.777  767.92628   0.76    TF-11-02    788.751
2447696.546 310191.777  767.49004   0.82    TF-11-02    788.751
2447696.546 310191.777  767.01116   0.97    TF-11-02    788.751
2447696.546 310191.777  766.57492   0.91    TF-11-02    788.751
2447696.546 310191.777  766.05996   0.79    TF-11-02    788.751
2447696.546 310191.777  765.58108   0.82    TF-11-02    788.751
2447696.546 310191.777  765.13172   0.75    TF-11-02    788.751
2447696.546 310191.777  764.68892   0.86    TF-11-02    788.751
2447696.546 310191.777  764.20676   0.8 TF-11-02    788.751
2447696.546 310191.777  763.75412   0.78    TF-11-02    788.751
2447696.546 310191.777  763.27196   0.69    TF-11-02    788.751
2447696.546 310191.777  762.8226    0.56    TF-11-02    788.751
2447696.546 310191.777  762.36996   0.67    TF-11-02    788.751
2447696.546 310191.777  761.88124   0.67    TF-11-02    788.751
2447696.546 310191.777  761.4286    0.65    TF-11-02    788.751
2447696.546 310191.777  760.94316   0.68    TF-11-02    788.751
2447696.546 310191.777  760.4446    0.63    TF-11-02    788.751
2447696.546 310191.777  759.96572   0.54    TF-11-02    788.751
2447696.546 310191.777  759.5098    0.61    TF-11-02    788.751
2447696.546 310191.777  759.02108   0.6 TF-11-02    788.751
```

```
2447696.546 310191.777  758.52908   0.59    TF-11-02    788.751
2447696.546 310191.777  758.0338    0.62    TF-11-02    788.751
2447696.546 310191.777  757.56476   0.59    TF-11-02    788.751
2447696.546 310191.777  757.0826    0.62    TF-11-02    788.751
2447696.546 310191.777  756.60044   0.6 TF-11-02    788.751
2447696.546 310191.777  756.15436   0.49    TF-11-02    788.751
2447696.546 310191.777  755.69188   0.47    TF-11-02    788.751
2447696.546 310191.777  755.25892   0.56    TF-11-02    788.751
2447696.546 310191.777  754.78988   0.47    TF-11-02    788.751
2447696.546 310191.777  754.35364   0.54    TF-11-02    788.751
2447696.546 310191.777  753.89116   0.49    TF-11-02    788.751
2447696.546 310191.777  753.42212   0.56    TF-11-02    788.751
2447696.546 310191.777  752.95636   0.53    TF-11-02    788.751
2447696.546 310191.777  752.52012   0.5 TF-11-02    788.751
2447696.546 310191.777  752.05108   0.55    TF-11-02    788.751
2447696.546 310191.777  751.57876   0.51    TF-11-02    788.751
2447696.546 310191.777  751.13924   0.57    TF-11-02    788.751
2447696.546 310191.777  750.6866    0.36    TF-11-02    788.751
2447696.546 310191.777  750.25036   0.42    TF-11-02    788.751
2447696.546 310191.777  749.77804   0.43    TF-11-02    788.751
2447696.546 310191.777  749.309 0.44    TF-11-02    788.751
2447696.546 310191.777  748.83668   0.42    TF-11-02    788.751
2447696.546 310191.777  748.39388   0.4 TF-11-02    788.751
2447696.546 310191.777  747.92812   0.42    TF-11-02    788.751
2447696.546 310191.777  747.92484   0.36    TF-11-02    788.751
2447731.22  310194.651  788.576 0.61    TF-11-03    788.576
2447731.22  310194.651  788.10368   0.82    TF-11-03    788.576
2447731.22  310194.651  787.64448   0.88    TF-11-03    788.576
2447731.22  310194.651  787.12624   0.7 TF-11-03    788.576
2447731.22  310194.651  786.6736    0.69    TF-11-03    788.576
2447731.22  310194.651  786.22424   0.67    TF-11-03    788.576
2447731.22  310194.651  785.788 0.79    TF-11-03    788.576
2447731.22  310194.651  785.29928   0.73    TF-11-03    788.576
2447731.22  310194.651  784.804 0.85    TF-11-03    788.576
2447731.22  310194.651  784.3448    1.12    TF-11-03    788.576
2447731.22  310194.651  784.12504   1.12    TF-11-03    788.576
2447731.22  310194.651  783.65928   7.09    TF-11-03    788.576
2447731.22  310194.651  783.13448   19.16   TF-11-03    788.576
2447731.22  310194.651  782.69496   62.88   TF-11-03    788.576
2447731.22  310194.651  782.41616   105.04  TF-11-03    788.576
2447731.22  310194.651  781.9504    65.44   TF-11-03    788.576
2447731.22  310194.651  781.45512   36.8    TF-11-03    788.576
2447731.22  310194.651  780.99264   27.83   TF-11-03    788.576
2447731.22  310194.651  780.5236    13.25   TF-11-03    788.576
2447731.22  310194.651  780.03488   9.49    TF-11-03    788.576
2447731.22  310194.651  779.5396    2.95    TF-11-03    788.576
2447731.22  310194.651  779.0804    1.76    TF-11-03    788.576
2447731.22  310194.651  778.572 0.61    TF-11-03    788.576
2447731.22  310194.651  778.09312   0.52    TF-11-03    788.576
2447731.22  310194.651  777.98488   0.4 TF-11-03    788.576
2447731.22  310194.651  777.50928   0.62    TF-11-03    788.576
2447731.22  310194.651  776.98776   0.73    TF-11-03    788.576
2447731.22  310194.651  776.54496   0.51    TF-11-03    788.576
2447731.22  310194.651  776.07592   0.56    TF-11-03    788.576
2447731.22  310194.651  775.60688   0.43    TF-11-03    788.576
2447731.22  310194.651  775.10176   0.45    TF-11-03    788.576
2447731.22  310194.651  774.61304   0.51    TF-11-03    788.576
2447731.22  310194.651  774.10792   0.55    TF-11-03    788.576
2447731.22  310194.651  773.67496   0.4 TF-11-03    788.576
2447731.22  310194.651  773.20264   0.45    TF-11-03    788.576
2447731.22  310194.651  772.70408   0.46    TF-11-03    788.576
2447731.22  310194.651  772.20552   0.48    TF-11-03    788.576
2447731.22  310194.651  771.72992   0.4 TF-11-03    788.576
2447731.22  310194.651  771.28384   0.42    TF-11-03    788.576
```

2447731.22	310194.651	770.82792	0.41	TF-11-03	788.576
2447731.22	310194.651	770.32936	0.45	TF-11-03	788.576
2447731.22	310194.651	769.81768	0.42	TF-11-03	788.576
2447731.22	310194.651	769.32568	0.47	TF-11-03	788.576
2447731.22	310194.651	768.86976	0.46	TF-11-03	788.576
2447731.22	310194.651	768.44008	0.53	TF-11-03	788.576
2447731.22	310194.651	767.91528	0.47	TF-11-03	788.576
2447731.22	310194.651	767.47576	0.49	TF-11-03	788.576
2447731.22	310194.651	766.98048	0.54	TF-11-03	788.576
2447731.22	310194.651	766.45896	0.61	TF-11-03	788.576
2447731.22	310194.651	765.97024	0.61	TF-11-03	788.576
2447731.22	310194.651	765.54056	0.63	TF-11-03	788.576
2447731.22	310194.651	765.08136	0.6	TF-11-03	788.576
2447731.22	310194.651	764.65168	0.56	TF-11-03	788.576
2447731.22	310194.651	764.17608	0.54	TF-11-03	788.576
2447731.22	310194.651	763.67096	0.53	TF-11-03	788.576
2447731.22	310194.651	763.24128	0.57	TF-11-03	788.576
2447731.22	310194.651	762.8116	0.51	TF-11-03	788.576
2447731.22	310194.651	762.37864	0.5	TF-11-03	788.576
2447731.22	310194.651	761.94896	0.59	TF-11-03	788.576
2447731.22	310194.651	761.4832	0.54	TF-11-03	788.576
2447731.22	310194.651	760.98792	0.56	TF-11-03	788.576
2447731.22	310194.651	760.532	0.48	TF-11-03	788.576
2447731.22	310194.651	760.02032	0.58	TF-11-03	788.576
2447731.22	310194.651	759.59064	0.57	TF-11-03	788.576
2447731.22	310194.651	759.16096	0.55	TF-11-03	788.576
2447731.22	310194.651	758.72472	0.54	TF-11-03	788.576
2447731.22	310194.651	758.28848	0.54	TF-11-03	788.576
2447731.22	310194.651	757.82272	0.55	TF-11-03	788.576
2447731.22	310194.651	757.39304	0.55	TF-11-03	788.576
2447731.22	310194.651	756.94696	0.5	TF-11-03	788.576
2447731.22	310194.651	756.4648	0.51	TF-11-03	788.576
2447731.22	310194.651	755.94656	0.45	TF-11-03	788.576
2447731.22	310194.651	755.51688	0.48	TF-11-03	788.576
2447731.22	310194.651	755.0872	0.5	TF-11-03	788.576
2447731.22	310194.651	754.61816	0.5	TF-11-03	788.576
2447731.22	310194.651	754.1852	0.41	TF-11-03	788.576
2447731.22	310194.651	753.75552	0.38	TF-11-03	788.576
2447731.22	310194.651	753.2996	0.39	TF-11-03	788.576
2447731.22	310194.651	752.86008	0.38	TF-11-03	788.576
2447731.22	310194.651	752.42384	0.36	TF-11-03	788.576
2447731.22	310194.651	751.9876	0.36	TF-11-03	788.576
2447731.22	310194.651	751.51528	0.5	TF-11-03	788.576
2447731.22	310194.651	751.03968	0.46	TF-11-03	788.576
2447731.22	310194.651	750.57064	0.46	TF-11-03	788.576
2447731.22	310194.651	750.10488	0.47	TF-11-03	788.576
2447731.22	310194.651	749.67192	0.64	TF-11-03	788.576
2447731.22	310194.651	749.20616	0.54	TF-11-03	788.576
2447731.22	310194.651	748.76336	0.51	TF-11-03	788.576
2447731.22	310194.651	748.3632	0.53	TF-11-03	788.576
2447776.968	310189.774	789.136	0.63	TF-11-04	789.136
2447776.968	310189.774	788.65712	0.67	TF-11-04	789.136
2447776.968	310189.774	788.19464	0.49	TF-11-04	789.136
2447776.968	310189.774	787.71904	0.49	TF-11-04	789.136
2447776.968	310189.774	787.24672	0.47	TF-11-04	789.136
2447776.968	310189.774	786.78096	0.48	TF-11-04	789.136
2447776.968	310189.774	786.33488	0.33	TF-11-04	789.136
2447776.968	310189.774	785.88552	0.29	TF-11-04	789.136
2447776.968	310189.774	785.36728	0.43	TF-11-04	789.136
2447776.968	310189.774	784.91136	0.35	TF-11-04	789.136
2447776.968	310189.774	784.45544	0.33	TF-11-04	789.136
2447776.968	310189.774	783.94704	0.37	TF-11-04	789.136
2447776.968	310189.774	783.43208	0.46	TF-11-04	789.136
2447776.968	310189.774	782.99912	0.49	TF-11-04	789.136

014973

```
2447776.968 310189.774  782.53336   0.49    TF-11-04    789.136
2447776.968 310189.774  782.16272   0.31    TF-11-04    789.136
2447776.968 310189.774  781.7232    0.87    TF-11-04    789.136
2447776.968 310189.774  781.26728   0.62    TF-11-04    789.136
2447776.968 310189.774  780.8376    0.91    TF-11-04    789.136
2447776.968 310189.774  780.31936   1.92    TF-11-04    789.136
2447776.968 310189.774  779.88968   3.75    TF-11-04    789.136
2447776.968 310189.774  779.4108    2.67    TF-11-04    789.136
2447776.968 310189.774  778.96472   1.39    TF-11-04    789.136
2447776.968 310189.774  778.47928   2.42    TF-11-04    789.136
2447776.968 310189.774  778.02992   2.3 TF-11-04    789.136
2447776.968 310189.774  777.54448   8.07    TF-11-04    789.136
2447776.968 310189.774  777.02952   0.49    TF-11-04    789.136
2447776.968 310189.774  776.55064   2.27    TF-11-04    789.136
2447776.968 310189.774  776.09472   1.6 TF-11-04    789.136
2447776.968 310189.774  775.70768   6.57    TF-11-04    789.136
2447776.968 310189.774  775.18288   1.07    TF-11-04    789.136
2447776.968 310189.774  774.72368   0.37    TF-11-04    789.136
2447776.968 310189.774  774.26776   0.48    TF-11-04    789.136
2447776.968 310189.774  773.79544   0.47    TF-11-04    789.136
2447776.968 310189.774  773.32968   0.4 TF-11-04    789.136
2447776.968 310189.774  772.9   0.42    TF-11-04    789.136
2447776.968 310189.774  772.43424   0.31    TF-11-04    789.136
2447776.968 310189.774  771.92584   0.31    TF-11-04    789.136
2447776.968 310189.774  771.45352   0.39    TF-11-04    789.136
2447776.968 310189.774  770.98776   0.39    TF-11-04    789.136
2447776.968 310189.774  770.50232   0.35    TF-11-04    789.136
2447776.968 310189.774  770.1284    0.46    TF-11-04    789.136
2447742.68  310149.458  789.095 0.5 TF-11-05    789.095
2447742.68  310149.458  788.6358    1.17    TF-11-05    789.095
2447742.68  310149.458  788.13724   0.84    TF-11-05    789.095
2447742.68  310149.458  787.66492   0.89    TF-11-05    789.095
2447742.68  310149.458  787.16308   0.73    TF-11-05    789.095
2447742.68  310149.458  786.7334    0.82    TF-11-05    789.095
2447742.68  310149.458  786.225 0.66    TF-11-05    789.095
2447742.68  310149.458  785.71332   0.7 TF-11-05    789.095
2447742.68  310149.458  785.18852   0.72    TF-11-05    789.095
2447742.68  310149.458  784.66372   0.74    TF-11-05    789.095
2447742.68  310149.458  784.40132   0.68    TF-11-05    789.095
2447742.68  310149.458  783.9454    1.31    TF-11-05    789.095
2447742.68  310149.458  783.42716   7.61    TF-11-05    789.095
2447742.68  310149.458  782.98764   6.71    TF-11-05    789.095
2447742.68  310149.458  782.5514    2.36    TF-11-05    789.095
2447742.68  310149.458  782.10532   14.52   TF-11-05    789.095
2447742.68  310149.458  781.62644   10.5    TF-11-05    789.095
2447742.68  310149.458  781.18364   48.81   TF-11-05    789.095
2447742.68  310149.458  781.07868   55.76   TF-11-05    789.095
2447742.68  310149.458  780.62932   20.58   TF-11-05    789.095
2447742.68  310149.458  780.17668   9.7 TF-11-05    789.095
2447742.68  310149.458  779.70764   11.95   TF-11-05    789.095
2447742.68  310149.458  779.26812   26.3    TF-11-05    789.095
2447742.68  310149.458  778.82532   14.83   TF-11-05    789.095
2447742.68  310149.458  778.38252   4.54    TF-11-05    789.095
2447742.68  310149.458  777.90364   3.4 TF-11-05    789.095
2447742.68  310149.458  777.38868   0.72    TF-11-05    789.095
2447742.68  310149.458  776.94588   1.17    TF-11-05    789.095
2447742.68  310149.458  776.46372   0.72    TF-11-05    789.095
2447742.68  310149.458  775.93564   0.63    TF-11-05    789.095
2447742.68  310149.458  775.47972   0.62    TF-11-05    789.095
2447742.68  310149.458  774.98444   0.81    TF-11-05    789.095
2447742.68  310149.458  774.5154    0.72    TF-11-05    789.095
2447742.68  310149.458  774.08244   0.66    TF-11-05    789.095
2447742.68  310149.458  773.62652   0.7 TF-11-05    789.095
2447742.68  310149.458  773.13452   0.88    TF-11-05    789.095
```


014974

```
2447742.68  310149.458  772.67532   0.7 TF-11-05    789.095
2447742.68  310149.458  772.21284   0.8 TF-11-05    789.095
2447742.68  310149.458  771.711 0.68    TF-11-05    789.095
2447742.68  310149.458  771.28132   0.84    TF-11-05    789.095
2447742.68  310149.458  770.78604   0.82    TF-11-05    789.095
2447742.68  310149.458  770.3006    0.78    TF-11-05    789.095
2447742.68  310149.458  769.85124   0.86    TF-11-05    789.095
2447742.68  310149.458  769.3986    0.88    TF-11-05    789.095
2447742.68  310149.458  768.94268   0.98    TF-11-05    789.095
2447742.68  310149.458  768.48348   1.02    TF-11-05    789.095
2447742.68  310149.458  768.00788   0.94    TF-11-05    789.095
2447742.68  310149.458  767.5782    0.88    TF-11-05    789.095
2447742.68  310149.458  767.0862    0.98    TF-11-05    789.095
2447742.68  310149.458  766.60732   0.93    TF-11-05    789.095
2447742.68  310149.458  766.09236   0.85    TF-11-05    789.095
2447742.68  310149.458  765.6102    0.76    TF-11-05    789.095
2447742.68  310149.458  765.1674    0.87    TF-11-05    789.095
2447742.68  310149.458  764.68852   0.81    TF-11-05    789.095
2447742.68  310149.458  764.25884   0.84    TF-11-05    789.095
2447742.68  310149.458  763.77668   0.59    TF-11-05    789.095
2447742.68  310149.458  763.29452   0.81    TF-11-05    789.095
2447742.68  310149.458  762.82876   0.83    TF-11-05    789.095
2447742.68  310149.458  762.33348   0.83    TF-11-05    789.095
2447742.68  310149.458  761.8382    0.8 TF-11-05    789.095
2447742.68  310149.458  761.32652   0.73    TF-11-05    789.095
2447742.68  310149.458  760.85748   0.69    TF-11-05    789.095
2447742.68  310149.458  760.3786    0.63    TF-11-05    789.095
2447742.68  310149.458  759.8866    0.65    TF-11-05    789.095
2447742.68  310149.458  759.35196   0.68    TF-11-05    789.095
2447742.68  310149.458  758.86324   0.69    TF-11-05    789.095
2447742.68  310149.458  758.38436   0.67    TF-11-05    789.095
2447742.68  310149.458  757.89892   0.7 TF-11-05    789.095
2447742.68  310149.458  757.40364   0.68    TF-11-05    789.095
2447742.68  310149.458  756.91164   0.76    TF-11-05    789.095
2447742.68  310149.458  756.41308   0.75    TF-11-05    789.095
2447742.68  310149.458  755.9178    0.79    TF-11-05    789.095
2447742.68  310149.458  755.43564   0.71    TF-11-05    789.095
2447742.68  310149.458  754.96332   0.85    TF-11-05    789.095
2447742.68  310149.458  754.49756   0.67    TF-11-05    789.095
2447742.68  310149.458  754.00228   0.7 TF-11-05    789.095
2447742.68  310149.458  753.50044   0.57    TF-11-05    789.095
2447742.68  310149.458  753.02484   0.69    TF-11-05    789.095
2447742.68  310149.458  752.51644   0.64    TF-11-05    789.095
2447742.68  310149.458  752.00804   0.77    TF-11-05    789.095
2447742.68  310149.458  751.57508   0.67    TF-11-05    789.095
2447742.68  310149.458  751.06012   0.71    TF-11-05    789.095
2447742.68  310149.458  750.555 0.69    TF-11-05    789.095
2447742.68  310149.458  750.07284   0.68    TF-11-05    789.095
2447742.68  310149.458  749.6202    0.73    TF-11-05    789.095
2447742.68  310149.458  749.13476   0.66    TF-11-05    789.095
2447742.68  310149.458  748.68212   0.7 TF-11-05    789.095
2447742.68  310149.458  748.20324   0.65    TF-11-05    789.095
2447742.68  310149.458  748.09172   0.61    TF-11-05    789.095
2447706.787 310119.927  788.326 0.07    TF-11-06    788.326
2447706.787 310119.927  788.26368   0.89    TF-11-06    788.326
2447706.787 310119.927  787.79464   0.44    TF-11-06    788.326
2447706.787 310119.927  787.32888   0.52    TF-11-06    788.326
2447706.787 310119.927  786.95496   0.06    TF-11-06    788.326
2447706.787 310119.927  786.47608   0.39    TF-11-06    788.326
2447706.787 310119.927  786.38752   0.56    TF-11-06    788.326
2447706.787 310119.927  785.8824    0.42    TF-11-06    788.326
2447706.787 310119.927  785.41008   0.32    TF-11-06    788.326
2447706.787 310119.927  784.97056   0.49    TF-11-06    788.326
2447706.787 310119.927  784.4884    0.32    TF-11-06    788.326
```

```
2447706.787 310119.927  784.00296   0.44    TF-11-06    788.326
2447706.787 310119.927  783.51752   0.29    TF-11-06    788.326
2447706.787 310119.927  783.05832   0.2 TF-11-06    788.326
2447706.787 310119.927  782.586 0.27    TF-11-06    788.326
2447706.787 310119.927  782.07104   0.2 TF-11-06    788.326
2447706.787 310119.927  781.62168   0.16    TF-11-06    788.326
2447706.787 310119.927  781.13296   0.24    TF-11-06    788.326
2447706.787 310119.927  780.92304   0.05    TF-11-06    788.326
2447706.787 310119.927  780.40152   0.12    TF-11-06    788.326
2447706.787 310119.927  779.97184   0.18    TF-11-06    788.326
2447706.787 310119.927  779.90296   0.01    TF-11-06    788.326
2447706.787 310119.927  779.43064   0.16    TF-11-06    788.326
2447706.787 310119.927  779.21744   0.28    TF-11-06    788.326
2447706.787 310119.927  778.732 0.17    TF-11-06    788.326
2447706.787 310119.927  778.24328   0.05    TF-11-06    788.326
2447706.787 310119.927  777.748 0.15    TF-11-06    788.326
2447706.787 310119.927  777.25272   0.08    TF-11-06    788.326
2447706.787 310119.927  776.75744   0.15    TF-11-06    788.326
2447706.787 310119.927  776.54096   0.01    TF-11-06    788.326
2447706.787 310119.927  776.24904   0.24    TF-11-06    788.326
2447706.787 310119.927  775.80624   0.08    TF-11-06    788.326
2447706.787 310119.927  775.28472   0.02    TF-11-06    788.326
2447706.787 310119.927  774.796 0.07    TF-11-06    788.326
2447706.787 310119.927  774.27448   0.12    TF-11-06    788.326
2447706.787 310119.927  773.78904   0.03    TF-11-06    788.326
2447706.787 310119.927  773.69392   0   TF-11-06    788.326
2447706.787 310119.927  773.63488   0.07    TF-11-06    788.326
2447706.787 310119.927  773.53976   0.05    TF-11-06    788.326
2447706.787 310119.927  773.29376   0.02    TF-11-06    788.326
2447706.787 310119.927  772.79848   0.12    TF-11-06    788.326
2447706.787 310119.927  772.64432   0.12    TF-11-06    788.326
2447706.787 310119.927  772.55248   0.07    TF-11-06    788.326
2447706.787 310119.927  772.46392   0.05    TF-11-06    788.326
2447706.787 310119.927  772.4016    0   TF-11-06    788.326
2447706.787 310119.927  772.2212    0.05    TF-11-06    788.326
2447706.787 310119.927  772.16216   0.04    TF-11-06    788.326
2447706.787 310119.927  771.8112    0.01    TF-11-06    788.326
2447706.787 310119.927  771.7128    0   TF-11-06    788.326
2447706.787 310119.927  771.50944   0.06    TF-11-06    788.326
2447706.787 310119.927  771.34216   0.03    TF-11-06    788.326
2447706.787 310119.927  770.8764    0.03    TF-11-06    788.326
2447706.787 310119.927  770.60416   0   TF-11-06    788.326
2447706.787 310119.927  770.50576   0.01    TF-11-06    788.326
2447706.787 310119.927  770.02688   -0.03   TF-11-06    788.326
2447706.787 310119.927  769.55784   0.04    TF-11-06    788.326
2447706.787 310119.927  769.0888    0.14    TF-11-06    788.326
2447706.787 310119.927  768.61648   -0.1    TF-11-06    788.326
2447706.787 310119.927  768.14088   0.01    TF-11-06    788.326
2447706.787 310119.927  767.66856   -0.09   TF-11-06    788.326
2447706.787 310119.927  767.22904   -0.1    TF-11-06    788.326
2447706.787 310119.927  766.76  -0.27   TF-11-06    788.326
2447706.787 310119.927  766.29096   0.25    TF-11-06    788.326
2447706.787 310119.927  766.02528   0.3 TF-11-06    788.326
2447706.787 310119.927  765.59232   0.23    TF-11-06    788.326
2447706.787 310119.927  765.49064   0.01    TF-11-06    788.326
2447706.787 310119.927  765.12  0.51    TF-11-06    788.326
2447706.787 310119.927  764.6772    0.24    TF-11-06    788.326
2447706.787 310119.927  764.19832   0.32    TF-11-06    788.326
2447706.787 310119.927  763.726 0.23    TF-11-06    788.326
2447706.787 310119.927  763.55872   0.03    TF-11-06    788.326
2447706.787 310119.927  763.1028    0.22    TF-11-06    788.326
2447706.787 310119.927  762.74528   0.48    TF-11-06    788.326
2447706.787 310119.927  762.29592   0.22    TF-11-06    788.326
2447706.787 310119.927  761.8564    0.14    TF-11-06    788.326
```

2447706.787	310119.927	761.39064	0.11	TF-11-06	788.326
2447706.787	310119.927	760.91832	0.1	TF-11-06	788.326
2447706.787	310119.927	760.47552	0.21	TF-11-06	788.326
2447706.787	310119.927	760.04256	0.25	TF-11-06	788.326
2447706.787	310119.927	759.5768	0.29	TF-11-06	788.326
2447706.787	310119.927	759.052	0.24	TF-11-06	788.326
2447706.787	310119.927	758.57312	0.31	TF-11-06	788.326
2447706.787	310119.927	758.12048	0.29	TF-11-06	788.326
2447706.787	310119.927	757.658	0.24	TF-11-06	788.326
2447706.787	310119.927	757.21848	0.24	TF-11-06	788.326
2447706.787	310119.927	756.76584	0.18	TF-11-06	788.326
2447706.787	310119.927	756.70352	0.22	TF-11-06	788.326
2447758.734	310103.019	787.952	0.09	TF-11-07	787.952
2447758.734	310103.019	787.92904	0.98	TF-11-07	787.952
2447758.734	310103.019	787.49936	1.04	TF-11-07	787.952
2447758.734	310103.019	787.06968	0.44	TF-11-07	787.952
2447758.734	310103.019	786.58096	1.1	TF-11-07	787.952
2447758.734	310103.019	786.15128	1.06	TF-11-07	787.952
2447758.734	310103.019	785.69536	1.31	TF-11-07	787.952
2447758.734	310103.019	785.24928	1.35	TF-11-07	787.952
2447758.734	310103.019	784.74416	-0.02	TF-11-07	787.952
2447758.734	310103.019	784.26528	0.75	TF-11-07	787.952
2447758.734	310103.019	783.7864	0.16	TF-11-07	787.952
2447758.734	310103.019	783.51744	0.17	TF-11-07	787.952
2447758.734	310103.019	783.032	1.05	TF-11-07	787.952
2447758.734	310103.019	782.57608	1.57	TF-11-07	787.952
2447758.734	310103.019	782.08736	1.81	TF-11-07	787.952
2447758.734	310103.019	781.65768	1.22	TF-11-07	787.952
2447758.734	310103.019	781.50352	5.73	TF-11-07	787.952
2447758.734	310103.019	781.064	2.21	TF-11-07	787.952
2447758.734	310103.019	780.66056	0.08	TF-11-07	787.952
2447758.734	310103.019	780.22104	0.1	TF-11-07	787.952
2447758.734	310103.019	780.12592	0	TF-11-07	787.952
2447758.734	310103.019	780.06032	0.05	TF-11-07	787.952
2447758.734	310103.019	779.61424	0.28	TF-11-07	787.952
2447758.734	310103.019	779.11568	0.31	TF-11-07	787.952
2447758.734	310103.019	778.66632	9.66	TF-11-07	787.952
2447758.734	310103.019	778.15464	2.63	TF-11-07	787.952
2447758.734	310103.019	777.70856	1.76	TF-11-07	787.952
2447758.734	310103.019	777.64296	9.55	TF-11-07	787.952
2447758.734	310103.019	777.1936	7.45	TF-11-07	787.952
2447758.734	310103.019	776.67864	4.85	TF-11-07	787.952
2447758.734	310103.019	776.16368	2.89	TF-11-07	787.952
2447758.734	310103.019	775.67168	1.78	TF-11-07	787.952
2447758.734	310103.019	775.23544	0.24	TF-11-07	787.952
2447758.734	310103.019	774.78936	0.04	TF-11-07	787.952
2447758.734	310103.019	774.28096	0.31	TF-11-07	787.952
2447758.734	310103.019	773.83488	0.2	TF-11-07	787.952
2447758.734	310103.019	773.31992	0.09	TF-11-07	787.952
2447758.734	310103.019	772.89024	0.1	TF-11-07	787.952
2447758.734	310103.019	772.64424	0.1	TF-11-07	787.952
2447758.734	310103.019	772.54912	0	TF-11-07	787.952
2447758.734	310103.019	772.49008	0.05	TF-11-07	787.952
2447758.734	310103.019	772.04728	0.24	TF-11-07	787.952
2447758.734	310103.019	771.6012	0.22	TF-11-07	787.952
2447758.734	310103.019	771.0928	0.16	TF-11-07	787.952
2447758.734	310103.019	770.64672	0.18	TF-11-07	787.952
2447758.734	310103.019	770.1416	0.2	TF-11-07	787.952
2447758.734	310103.019	769.70536	0.27	TF-11-07	787.952
2447758.734	310103.019	769.26912	0.17	TF-11-07	787.952
2447758.734	310103.019	768.75744	0.15	TF-11-07	787.952
2447758.734	310103.019	768.24576	0.33	TF-11-07	787.952
2447758.734	310103.019	767.78984	0.27	TF-11-07	787.952
2447758.734	310103.019	767.33392	0.27	TF-11-07	787.952

```
2447758.734 310103.019  766.82224   0.06    TF-11-07    787.952
2447758.734 310103.019  766.39256   0.22    TF-11-07    787.952
2447758.734 310103.019  765.94648   0.29    TF-11-07    787.952
2447758.734 310103.019  765.49056   0.25    TF-11-07    787.952
2447758.734 310103.019  764.97232   0.26    TF-11-07    787.952
2447758.734 310103.019  764.4508    0.26    TF-11-07    787.952
2447758.734 310103.019  763.99488   0.24    TF-11-07    787.952
2447758.734 310103.019  763.47008   0.28    TF-11-07    787.952
2447758.734 310103.019  763.01744   0.33    TF-11-07    787.952
2447758.734 310103.019  762.57464   0.21    TF-11-07    787.952
2447758.734 310103.019  762.06296   0.31    TF-11-07    787.952
2447758.734 310103.019  761.548 0.16    TF-11-07    787.952
2447758.734 310103.019  761.10192   0.23    TF-11-07    787.952
2447758.734 310103.019  760.58696   0.15    TF-11-07    787.952
2447758.734 310103.019  760.15728   0.17    TF-11-07    787.952
2447758.734 310103.019  759.7112    0.24    TF-11-07    787.952
2447758.734 310103.019  759.19624   0.39    TF-11-07    787.952
2447758.734 310103.019  758.67144   0.23    TF-11-07    787.952
2447758.734 310103.019  758.21552   0.27    TF-11-07    787.952
2447758.734 310103.019  757.76288   0.27    TF-11-07    787.952
2447758.734 310103.019  757.2348    0.21    TF-11-07    787.952
2447758.734 310103.019  756.76904   0.39    TF-11-07    787.952
2447758.734 310103.019  756.31968   0.32    TF-11-07    787.952
2447758.734 310103.019  755.86376   0.28    TF-11-07    787.952
2447758.734 310103.019  755.34224   0.32    TF-11-07    787.952
2447758.734 310103.019  754.89288   0.31    TF-11-07    787.952
2447758.734 310103.019  754.46976   0.24    TF-11-07    787.952
2447758.734 310103.019  754.37792   0   TF-11-07    787.952
2447758.734 310103.019  754.27952   0.07    TF-11-07    787.952
2447758.734 310103.019  753.83344   0.14    TF-11-07    787.952
2447758.734 310103.019  753.3316    0.1 TF-11-07    787.952
2447758.734 310103.019  752.81664   0.21    TF-11-07    787.952
2447758.734 310103.019  752.2984    0.09    TF-11-07    787.952
2447758.734 310103.019  751.7736    0.13    TF-11-07    787.952
2447758.734 310103.019  751.25536   0.21    TF-11-07    787.952
2447758.734 310103.019  750.79288   0.06    TF-11-07    787.952
2447758.734 310103.019  750.34352   0.21    TF-11-07    787.952
2447758.734 310103.019  749.8384    0.16    TF-11-07    787.952
2447758.734 310103.019  749.3792    0.21    TF-11-07    787.952
2447758.734 310103.019  748.92656   0.16    TF-11-07    787.952
2447758.734 310103.019  748.40504   0.17    TF-11-07    787.952
2447758.734 310103.019  747.88024   0.13    TF-11-07    787.952
2447758.734 310103.019  747.35872   0.17    TF-11-07    787.952
2447758.734 310103.019  747.27672   0.25    TF-11-07    787.952
2447659.502 310100.698  787.784 0.49    TF-11-08    787.784
2447659.502 310100.698  787.31496   0.99    TF-11-08    787.784
2447659.502 310100.698  786.79016   0.73    TF-11-08    787.784
2447659.502 310100.698  786.26536   0.85    TF-11-08    787.784
2447659.502 310100.698  785.7832    0.76    TF-11-08    787.784
2447659.502 310100.698  785.324 0.78    TF-11-08    787.784
2447659.502 310100.698  784.89432   0.6 TF-11-08    787.784
2447659.502 310100.698  784.46792   0.5 TF-11-08    787.784
2447726.446 310072.929  788.284 0.36    TF-11-09    788.284
2447726.446 310072.929  787.80184   1.03    TF-11-09    788.284
2447726.446 310072.929  787.31968   0.51    TF-11-09    788.284
2447726.446 310072.929  786.8736    0.75    TF-11-09    788.284
2447726.446 310072.929  786.40456   1.65    TF-11-09    788.284
2447726.446 310072.929  785.92896   -0.44   TF-11-09    788.284
2447726.446 310072.929  785.45008   13  TF-11-09    788.284
2447726.446 310072.929  784.97448   12.31   TF-11-09    788.284
2447726.446 310072.929  784.52512   35.82   TF-11-09    788.284
2447726.446 310072.929  784.04624   27.15   TF-11-09    788.284
2447726.446 310072.929  783.94128   32.83   TF-11-09    788.284
2447726.446 310072.929  783.48536   24.71   TF-11-09    788.284
```


014978

```
2447726.446 310072.929  783.02944   16.56   TF-11-09    788.284
2447726.446 310072.929  782.54728   15.73   TF-11-09    788.284
2447726.446 310072.929  782.0848    3.75    TF-11-09    788.284
2447726.446 310072.929  781.58952   1.57    TF-11-09    788.284
2447726.446 310072.929  781.52064   0.1 TF-11-09    788.284
2447726.446 310072.929  781.09096   1.03    TF-11-09    788.284
2447726.446 310072.929  780.63176   0.53    TF-11-09    788.284
2447726.446 310072.929  780.13648   0.9 TF-11-09    788.284
2447726.446 310072.929  779.69696   1.68    TF-11-09    788.284
2447726.446 310072.929  779.34928   6.23    TF-11-09    788.284
2447726.446 310072.929  778.91304   1.69    TF-11-09    788.284
2447726.446 310072.929  778.45056   3.16    TF-11-09    788.284
2447726.446 310072.929  777.94544   5.47    TF-11-09    788.284
2447726.446 310072.929  777.44032   3.74    TF-11-09    788.284
2447726.446 310072.929  776.97128   2.07    TF-11-09    788.284
2447726.446 310072.929  776.52192   1.3 TF-11-09    788.284
2447726.446 310072.929  776.23656   0.66    TF-11-09    788.284
2447726.446 310072.929  775.72816   2.51    TF-11-09    788.284
2447726.446 310072.929  775.25256   1.8 TF-11-09    788.284
2447726.446 310072.929  774.74088   7.76    TF-11-09    788.284
2447726.446 310072.929  774.44896   9.46    TF-11-09    788.284
2447726.446 310072.929  773.9668    1.21    TF-11-09    788.284
2447726.446 310072.929  773.45512   0.63    TF-11-09    788.284
2447726.446 310072.929  773.02216   0.14    TF-11-09    788.284
2447726.446 310072.929  772.52032   0.33    TF-11-09    788.284
2447726.446 310072.929  772.05456   0.27    TF-11-09    788.284
2447726.446 310072.929  771.56256   0.24    TF-11-09    788.284
2447726.446 310072.929  771.06728   0.43    TF-11-09    788.284
2447726.446 310072.929  770.6048    0.33    TF-11-09    788.284
2447726.446 310072.929  770.15216   0.26    TF-11-09    788.284
2447726.446 310072.929  769.7192    0.22    TF-11-09    788.284
2447726.446 310072.929  769.61752   0.07    TF-11-09    788.284
2447726.446 310072.929  769.13536   0.15    TF-11-09    788.284
2447726.446 310072.929  768.65648   0.17    TF-11-09    788.284
2447726.446 310072.929  768.19728   0.15    TF-11-09    788.284
2447726.446 310072.929  767.69544   0.27    TF-11-09    788.284
2447726.446 310072.929  767.2264    0.13    TF-11-09    788.284
2447726.446 310072.929  766.78688   0.23    TF-11-09    788.284
2447726.446 310072.929  766.32768   0.31    TF-11-09    788.284
2447726.446 310072.929  765.81928   0.47    TF-11-09    788.284
2447726.446 310072.929  765.36008   0.41    TF-11-09    788.284
2447726.446 310072.929  764.8484    0.55    TF-11-09    788.284
2447726.446 310072.929  764.74344   0.55    TF-11-09    788.284
2447726.446 310072.929  764.27112   0.43    TF-11-09    788.284
2447726.446 310072.929  763.766 0.33    TF-11-09    788.284
2447726.446 310072.929  763.36912   0.02    TF-11-09    788.284
2447726.446 310072.929  763.2576    0   TF-11-09    788.284
2447726.446 310072.929  763.18216   0.14    TF-11-09    788.284
2447726.446 310072.929  762.67376   0.13    TF-11-09    788.284
2447726.446 310072.929  762.20472   0.14    TF-11-09    788.284
2447726.446 310072.929  761.69304   -0.08   TF-11-09    788.284
2447726.446 310072.929  761.21744   0.01    TF-11-09    788.284
2447726.446 310072.929  761.10592   0.13    TF-11-09    788.284
2447726.446 310072.929  760.6008    0.11    TF-11-09    788.284
2447726.446 310072.929  760.07272   0.07    TF-11-09    788.284
2447726.446 310072.929  759.55776   0.02    TF-11-09    788.284
2447726.446 310072.929  759.08544   0.03    TF-11-09    788.284
2447726.446 310072.929  758.60984   0.17    TF-11-09    788.284
2447726.446 310072.929  758.09488   0.17    TF-11-09    788.284
2447726.446 310072.929  757.62584   0.03    TF-11-09    788.284
2447726.446 310072.929  757.52416   0.19    TF-11-09    788.284
2447726.446 310072.929  757.28144   0.01    TF-11-09    788.284
2447726.446 310072.929  756.80584   0.23    TF-11-09    788.284
2447726.446 310072.929  756.71728   0.23    TF-11-09    788.284
```


014979

```
2447777.953 310078.34   788.054 0.49    TF-11-10    788.054
2447777.953 310078.34   787.9556    7.78    TF-11-10    788.054
2447777.953 310078.34   787.50296   5.78    TF-11-10    788.054
2447777.953 310078.34   787.33568   0.86    TF-11-10    788.054
2447777.953 310078.34   786.88632   2.88    TF-11-10    788.054
2447777.953 310078.34   786.44024   8.45    TF-11-10    788.054
2447777.953 310078.34   785.99088   11.3    TF-11-10    788.054
2447777.953 310078.34   785.5612    11.03   TF-11-10    788.054
2447777.953 310078.34   785.12824   12.2    TF-11-10    788.054
2447777.953 310078.34   784.69856   11.31   TF-11-10    788.054
2447777.953 310078.34   784.49192   15.26   TF-11-10    788.054
2447777.953 310078.34   784.04912   4.6 TF-11-10    788.054
2447777.953 310078.34   783.57352   5.1 TF-11-10    788.054
2447777.953 310078.34   783.12744   5.22    TF-11-10    788.054
2447777.953 310078.34   782.62888   2.97    TF-11-10    788.054
2447777.953 310078.34   782.26808   0.66    TF-11-10    788.054
2447777.953 310078.34   781.80232   0.89    TF-11-10    788.054
2447777.953 310078.34   781.36608   0.88    TF-11-10    788.054
2447777.953 310078.34   780.89048   1.34    TF-11-10    788.054
2447777.953 310078.34   780.40832   1.06    TF-11-10    788.054
2447777.953 310078.34   779.97536   1.78    TF-11-10    788.054
2447777.953 310078.34   779.51288   2.96    TF-11-10    788.054
2447777.953 310078.34   779.05696   1.05    TF-11-10    788.054
2447777.953 310078.34   778.56168   1.31    TF-11-10    788.054
2447777.953 310078.34   778.09264   1.78    TF-11-10    788.054
2447777.953 310078.34   777.62688   3.91    TF-11-10    788.054
2447777.953 310078.34   777.34152   4.36    TF-11-10    788.054
2447777.953 310078.34   776.91184   1.18    TF-11-10    788.054
2447777.953 310078.34   776.4592    1.04    TF-11-10    788.054
2447777.953 310078.34   776.02952   2.05    TF-11-10    788.054
2447777.953 310078.34   775.58672   0.95    TF-11-10    788.054
2447777.953 310078.34   775.09144   0.8 TF-11-10    788.054
2447777.953 310078.34   774.5896    0.2 TF-11-10    788.054
2447777.953 310078.34   774.08448   0.34    TF-11-10    788.054
2447777.953 310078.34   773.61216   0.22    TF-11-10    788.054
2447777.953 310078.34   773.14968   0.12    TF-11-10    788.054
2447777.953 310078.34   772.68392   0.27    TF-11-10    788.054
2447777.953 310078.34   772.18864   0.44    TF-11-10    788.054
2447777.953 310078.34   771.71304   0.47    TF-11-10    788.054
2447777.953 310078.34   771.20136   0.47    TF-11-10    788.054
2447777.953 310078.34   770.72248   0.32    TF-11-10    788.054
2447777.953 310078.34   770.24688   0.36    TF-11-10    788.054
2447777.953 310078.34   769.74832   0.33    TF-11-10    788.054
2447777.953 310078.34   769.27272   0.47    TF-11-10    788.054
2447777.953 310078.34   768.75776   0.42    TF-11-10    788.054
2447777.953 310078.34   768.28216   0.47    TF-11-10    788.054
2447777.953 310078.34   767.76392   0.52    TF-11-10    788.054
2447777.953 310078.34   767.32112   0.49    TF-11-10    788.054
2447777.953 310078.34   766.84552   0.64    TF-11-10    788.054
2447777.953 310078.34   766.37648   0.61    TF-11-10    788.054
2447777.953 310078.34   765.8648    0.54    TF-11-10    788.054
2447777.953 310078.34   765.38264   0.59    TF-11-10    788.054
2447777.953 310078.34   764.90376   0.58    TF-11-10    788.054
2447777.953 310078.34   764.3888    0.57    TF-11-10    788.054
2447777.953 310078.34   763.89352   0.49    TF-11-10    788.054
2447777.953 310078.34   763.42776   0.64    TF-11-10    788.054
2447777.953 310078.34   762.90952   0.62    TF-11-10    788.054
2447777.953 310078.34   762.43064   0.66    TF-11-10    788.054
2447777.953 310078.34   761.9124    0.66    TF-11-10    788.054
2447777.953 310078.34   761.42696   0.54    TF-11-10    788.054
2447777.953 310078.34   760.90216   0.5 TF-11-10    788.054
2447777.953 310078.34   760.39376   0.38    TF-11-10    788.054
2447777.953 310078.34   759.92472   0.42    TF-11-10    788.054
2447777.953 310078.34   759.39992   0.41    TF-11-10    788.054
```

2447777.953	310078.34	758.88168	0.44	TF-11-10	788.054
2447777.953	310078.34	758.39952	0.44	TF-11-10	788.054
2447777.953	310078.34	757.9108	0.42	TF-11-10	788.054
2447777.953	310078.34	757.4516	0.45	TF-11-10	788.054
2447777.953	310078.34	756.98912	0.44	TF-11-10	788.054
2447777.953	310078.34	756.5496	0.44	TF-11-10	788.054
2447777.953	310078.34	756.06416	0.55	TF-11-10	788.054
2447777.953	310078.34	755.54264	0.38	TF-11-10	788.054
2447777.953	310078.34	755.05392	0.38	TF-11-10	788.054
2447777.953	310078.34	754.52584	0.39	TF-11-10	788.054
2447777.953	310078.34	754.0568	0.39	TF-11-10	788.054
2447777.953	310078.34	753.53856	0.4	TF-11-10	788.054
2447777.953	310078.34	753.05968	0.38	TF-11-10	788.054
2447777.953	310078.34	752.5316	0.37	TF-11-10	788.054
2447777.953	310078.34	752.0396	0.44	TF-11-10	788.054
2447777.953	310078.34	751.5476	0.33	TF-11-10	788.054
2447777.953	310078.34	751.09168	0.29	TF-11-10	788.054
2447777.953	310078.34	750.60624	0.41	TF-11-10	788.054
2447777.953	310078.34	750.14376	0.25	TF-11-10	788.054
2447777.953	310078.34	749.6124	0.31	TF-11-10	788.054
2447777.953	310078.34	749.08432	0.29	TF-11-10	788.054
2447777.953	310078.34	748.59232	0.44	TF-11-10	788.054
2447777.953	310078.34	748.0708	0.38	TF-11-10	788.054
2447777.953	310078.34	747.73296	0.35	TF-11-10	788.054
2447654.54	309609.122	781.505	2.04	TF-12-01	781.505
2447654.54	309609.122	780.99004	2.6	TF-12-01	781.505
2447654.54	309609.122	780.50132	2.36	TF-12-01	781.505
2447654.54	309609.122	780.03884	2.25	TF-12-01	781.505
2447654.54	309609.122	779.59604	2	TF-12-01	781.505
2447654.54	309609.122	779.16636	1.86	TF-12-01	781.505
2447654.54	309609.122	778.72684	1.66	TF-12-01	781.505
2447654.54	309609.122	778.23156	1.56	TF-12-01	781.505
2447654.54	309609.122	777.74612	1.52	TF-12-01	781.505
2447654.54	309609.122	777.25084	1.53	TF-12-01	781.505
2447654.54	309609.122	776.78836	1.56	TF-12-01	781.505
2447654.54	309609.122	776.3554	1.62	TF-12-01	781.505
2447654.54	309609.122	775.88636	1.51	TF-12-01	781.505
2447654.54	309609.122	775.43044	1.49	TF-12-01	781.505
2447654.54	309609.122	775.00076	1.52	TF-12-01	781.505
2447654.54	309609.122	774.59404	1.59	TF-12-01	781.505
2447654.54	309609.122	774.12172	6.96	TF-12-01	781.505
2447654.54	309609.122	773.67892	5.84	TF-12-01	781.505
2447654.54	309609.122	773.1738	10.67	TF-12-01	781.505
2447654.54	309609.122	772.69492	8.48	TF-12-01	781.505
2447654.54	309609.122	772.19964	64.81	TF-12-01	781.505
2447654.54	309609.122	771.68796	200.72	TF-12-01	781.505
2447654.54	309609.122	771.62564	206.37	TF-12-01	781.505
2447654.54	309609.122	771.17956	16.65	TF-12-01	781.505
2447654.54	309609.122	770.67444	4.98	TF-12-01	781.505
2447654.54	309609.122	770.33988	2.32	TF-12-01	781.505
2447654.54	309609.122	769.9102	14.06	TF-12-01	781.505
2447654.54	309609.122	769.45756	33.44	TF-12-01	781.505
2447654.54	309609.122	769.41164	35.81	TF-12-01	781.505
2447654.54	309609.122	768.97212	4.34	TF-12-01	781.505
2447654.54	309609.122	768.5326	2.22	TF-12-01	781.505
2447654.54	309609.122	768.07012	1.67	TF-12-01	781.505
2447654.54	309609.122	768.0406	1.77	TF-12-01	781.505
2447590.958	309558.045	782.149	-0.49	TF-12-02	782.149
2447590.958	309558.045	781.63404	0.44	TF-12-02	782.149
2447590.958	309558.045	781.13548	0.38	TF-12-02	782.149
2447590.958	309558.045	780.63364	0.41	TF-12-02	782.149
2447590.958	309558.045	780.14164	0.45	TF-12-02	782.149
2447590.958	309558.045	779.69228	0.45	TF-12-02	782.149
2447590.958	309558.045	779.1806	0.37	TF-12-02	782.149

014981

```
2447590.958 309558.045  778.66236   0.45    TF-12-02    782.149
2447590.958 309558.045  778.13756   0.51    TF-12-02    782.149
2447590.958 309558.045  777.64228   0.44    TF-12-02    782.149
2447590.958 309558.045  777.2126    0.37    TF-12-02    782.149
2447590.958 309558.045  776.74028   0.32    TF-12-02    782.149
2447590.958 309558.045  776.2286    0.41    TF-12-02    782.149
2447590.958 309558.045  775.79564   0.39    TF-12-02    782.149
2447590.958 309558.045  775.3594    0.47    TF-12-02    782.149
2447590.958 309558.045  774.9166    0.52    TF-12-02    782.149
2447590.958 309558.045  774.441 2.47    TF-12-02    782.149
2447590.958 309558.045  773.99492   10.98   TF-12-02    782.149
2447590.958 309558.045  773.49308   47.05   TF-12-02    782.149
2447590.958 309558.045  772.97484   44.38   TF-12-02    782.149
2447590.958 309558.045  772.53532   37.06   TF-12-02    782.149
2447590.958 309558.045  772.10236   87.55   TF-12-02    782.149
2447590.958 309558.045  771.67268   63.66   TF-12-02    782.149
2447590.958 309558.045  771.15772   89.32   TF-12-02    782.149
2447590.958 309558.045  770.71492   61.53   TF-12-02    782.149
2447590.958 309558.045  770.24916   77.8    TF-12-02    782.149
2447590.958 309558.045  769.74404   45.48   TF-12-02    782.149
2447590.958 309558.045  769.29796   3.68    TF-12-02    782.149
2447590.958 309558.045  768.80924   1.84    TF-12-02    782.149
2447590.958 309558.045  768.34676   0.8 TF-12-02    782.149
2447590.958 309558.045  767.88428   0.66    TF-12-02    782.149
2447590.958 309558.045  767.389 0.55    TF-12-02    782.149
2447590.958 309558.045  766.9462    0.92    TF-12-02    782.149
2447590.958 309558.045  766.47716   0.82    TF-12-02    782.149
2447590.958 309558.045  766.39188   2.83    TF-12-02    782.149
2447625.239 309578.547  783.03  0.88    TF-12-03    783.03
2447625.239 309578.547  782.59048   3.19    TF-12-03    783.03
2447625.239 309578.547  782.21984   11.29   TF-12-03    783.03
2447625.239 309578.547  781.75408   1.61    TF-12-03    783.03
2447625.239 309578.547  781.28504   0.72    TF-12-03    783.03
2447625.239 309578.547  780.85536   0.46    TF-12-03    783.03
2447625.239 309578.547  780.42568   0.47    TF-12-03    783.03
2447625.239 309578.547  779.95336   0.4 TF-12-03    783.03
2447625.239 309578.547  779.51712   0.45    TF-12-03    783.03
2447625.239 309578.547  779.04152   0.43    TF-12-03    783.03
2447625.239 309578.547  778.57576   0.45    TF-12-03    783.03
2447625.239 309578.547  778.09688   0.55    TF-12-03    783.03
2447625.239 309578.547  777.66392   0.65    TF-12-03    783.03
2447625.239 309578.547  777.21128   0.42    TF-12-03    783.03
2447625.239 309578.547  776.7816    0.49    TF-12-03    783.03
2447625.239 309578.547  776.29944   0.39    TF-12-03    783.03
2447625.239 309578.547  775.78448   0.38    TF-12-03    783.03
2447625.239 309578.547  775.2728    0.48    TF-12-03    783.03
2447625.239 309578.547  774.75784   0.44    TF-12-03    783.03
2447625.239 309578.547  774.3216    0.38    TF-12-03    783.03
2447625.239 309578.547  773.88864   0.43    TF-12-03    783.03
2447625.239 309578.547  773.44584   0.53    TF-12-03    783.03
2447625.239 309578.547  772.98992   0.58    TF-12-03    783.03
2447625.239 309578.547  772.53728   0.63    TF-12-03    783.03
2447625.239 309578.547  772.08464   0.57    TF-12-03    783.03
2447625.239 309578.547  771.61888   0.69    TF-12-03    783.03
2447625.239 309578.547  771.13672   0.68    TF-12-03    783.03
2447625.239 309578.547  770.70704   0.55    TF-12-03    783.03
2447625.239 309578.547  770.25112   0.74    TF-12-03    783.03
2447625.239 309578.547  769.75912   0.54    TF-12-03    783.03
2447625.239 309578.547  769.32288   0.45    TF-12-03    783.03
2447625.239 309578.547  768.94568   0.41    TF-12-03    783.03
2447659.817 309574.514  781.215 0.84    TF-12-04    781.215
2447659.817 309574.514  780.77548   1.47    TF-12-04    781.215
2447659.817 309574.514  780.27036   1.42    TF-12-04    781.215
2447659.817 309574.514  779.76524   1.35    TF-12-04    781.215
```

```
2447659.817 309574.514  779.26668   1.44    TF-12-04    781.215
2447659.817 309574.514  778.8206    1.4 TF-12-04    781.215
2447659.817 309574.514  778.36468   1.34    TF-12-04    781.215
2447659.817 309574.514  777.8694    1.45    TF-12-04    781.215
2447659.817 309574.514  777.36428   1.36    TF-12-04    781.215
2447659.817 309574.514  776.89196   1.42    TF-12-04    781.215
2447659.817 309574.514  776.38356   1.31    TF-12-04    781.215
2447659.817 309574.514  775.93748   1.4 TF-12-04    781.215
2447659.817 309574.514  775.43236   1.36    TF-12-04    781.215
2447659.817 309574.514  775.10436   1.21    TF-12-04    781.215
2447659.817 309574.514  774.6714    2.66    TF-12-04    781.215
2447659.817 309574.514  774.20564   12.51   TF-12-04    781.215
2447659.817 309574.514  773.76284   24.23   TF-12-04    781.215
2447659.817 309574.514  773.32004   17.57   TF-12-04    781.215
2447659.817 309574.514  772.84116   7.42    TF-12-04    781.215
2447659.817 309574.514  772.34588   11.5    TF-12-04    781.215
2447659.817 309574.514  771.86372   11.05   TF-12-04    781.215
2447659.817 309574.514  771.59804   60.25   TF-12-04    781.215
2447659.817 309574.514  771.10604   19.9    TF-12-04    781.215
2447659.817 309574.514  770.64356   14.55   TF-12-04    781.215
2447659.817 309574.514  770.21388   35.92   TF-12-04    781.215
2447659.817 309574.514  769.77764   10.57   TF-12-04    781.215
2447659.817 309574.514  769.3086    3.29    TF-12-04    781.215
2447659.817 309574.514  768.85268   2.33    TF-12-04    781.215
2447659.817 309574.514  768.41972   1.56    TF-12-04    781.215
2447659.817 309574.514  767.98676   1.6 TF-12-04    781.215
2447659.817 309574.514  767.5374    1.4 TF-12-04    781.215
2447659.817 309574.514  767.32748   1.52    TF-12-04    781.215
2447612.927 309534.511  782.424 1.62    TF-12-05    782.424
2447612.927 309534.511  781.97792   1.72    TF-12-05    782.424
2447612.927 309534.511  781.5056    1.62    TF-12-05    782.424
2447612.927 309534.511  781.03984   1.62    TF-12-05    782.424
2447612.927 309534.511  780.55768   1.49    TF-12-05    782.424
2447612.927 309534.511  780.11816   1.65    TF-12-05    782.424
2447612.927 309534.511  779.65568   1.58    TF-12-05    782.424
2447612.927 309534.511  779.18664   1.54    TF-12-05    782.424
2447612.927 309534.511  778.70776   1.58    TF-12-05    782.424
2447612.927 309534.511  778.23216   1.58    TF-12-05    782.424
2447612.927 309534.511  777.72376   1.55    TF-12-05    782.424
2447612.927 309534.511  777.21208   1.54    TF-12-05    782.424
2447612.927 309534.511  776.766 1.55    TF-12-05    782.424
2447612.927 309534.511  776.2904    1.61    TF-12-05    782.424
2447612.927 309534.511  775.81808   1.57    TF-12-05    782.424
2447612.927 309534.511  775.34248   1.53    TF-12-05    782.424
2447612.927 309534.511  775.23096   1.46    TF-12-05    782.424
2447612.927 309534.511  774.7488    3.78    TF-12-05    782.424
2447612.927 309534.511  774.31256   8.74    TF-12-05    782.424
2447612.927 309534.511  773.86976   50.4    TF-12-05    782.424
2447612.927 309534.511  773.36136   25.4    TF-12-05    782.424
2447612.927 309534.511  772.88248   29.06   TF-12-05    782.424
2447612.927 309534.511  772.40032   45.98   TF-12-05    782.424
2447612.927 309534.511  772.03296   108.22  TF-12-05    782.424
2447612.927 309534.511  771.55408   50.04   TF-12-05    782.424
2447612.927 309534.511  771.11128   61.67   TF-12-05    782.424
2447612.927 309534.511  770.59304   91.5    TF-12-05    782.424
2447612.927 309534.511  770.14368   66.9    TF-12-05    782.424
2447612.927 309534.511  769.67792   12.46   TF-12-05    782.424
2447612.927 309534.511  769.17936   3.1 TF-12-05    782.424
2447612.927 309534.511  768.7136    2   TF-12-05    782.424
2447612.927 309534.511  768.19864   1.97    TF-12-05    782.424
2447612.927 309534.511  767.7624    1.83    TF-12-05    782.424
2447612.927 309534.511  767.24088   2.06    TF-12-05    782.424
2447612.927 309534.511  766.762 1.82    TF-12-05    782.424
2447612.927 309534.511  766.26672   1.78    TF-12-05    782.424
```


014983

2447612.927	309534.511	765.77472	1.79	TF-12-05	782.424
2447612.927	309534.511	765.29256	1.84	TF-12-05	782.424
2447612.927	309534.511	765.2532	1.72	TF-12-05	782.424
2447594.94	309515.641	783.726	1.32	TF-12-06	783.726
2447594.94	309515.641	783.28648	1.67	TF-12-06	783.726
2447594.94	309515.641	782.84368	2.04	TF-12-06	783.726
2447594.94	309515.641	782.33856	1.51	TF-12-06	783.726
2447594.94	309515.641	781.85968	1.58	TF-12-06	783.726
2447594.94	309515.641	781.39064	1.38	TF-12-06	783.726
2447594.94	309515.641	780.93472	1.37	TF-12-06	783.726
2447594.94	309515.641	780.41976	1.54	TF-12-06	783.726
2447594.94	309515.641	779.96056	1.55	TF-12-06	783.726
2447594.94	309515.641	779.5276	1.44	TF-12-06	783.726
2447594.94	309515.641	779.0684	1.31	TF-12-06	783.726
2447594.94	309515.641	778.6256	1.32	TF-12-06	783.726
2447594.94	309515.641	778.18608	1.38	TF-12-06	783.726
2447594.94	309515.641	777.68752	1.39	TF-12-06	783.726
2447594.94	309515.641	777.22832	1.41	TF-12-06	783.726
2447594.94	309515.641	776.76256	1.41	TF-12-06	783.726
2447594.94	309515.641	776.28368	1.26	TF-12-06	783.726
2447594.94	309515.641	775.80808	1.33	TF-12-06	783.726
2447594.94	309515.641	775.28656	1.46	TF-12-06	783.726
2447594.94	309515.641	774.74208	1.6	TF-12-06	783.726
2447594.94	309515.641	774.30584	1.46	TF-12-06	783.726
2447594.94	309515.641	773.85976	2.16	TF-12-06	783.726
2447594.94	309515.641	773.42024	2.01	TF-12-06	783.726
2447594.94	309515.641	772.98072	1.61	TF-12-06	783.726
2447594.94	309515.641	772.5412	1.63	TF-12-06	783.726
2447594.94	309515.641	772.48872	1.61	TF-12-06	783.726
2447648.352	309542.994	781.299	2.29	TF-12-07	781.299
2447648.352	309542.994	780.86276	2.03	TF-12-07	781.299
2447648.352	309542.994	780.39044	2.01	TF-12-07	781.299
2447648.352	309542.994	779.9214	2	TF-12-07	781.299
2447648.352	309542.994	779.48516	1.95	TF-12-07	781.299
2447648.352	309542.994	779.003	1.69	TF-12-07	781.299
2447648.352	309542.994	778.55364	1.67	TF-12-07	781.299
2447648.352	309542.994	778.09772	1.81	TF-12-07	781.299
2447648.352	309542.994	777.66148	2.05	TF-12-07	781.299
2447648.352	309542.994	777.19244	1.74	TF-12-07	781.299
2447648.352	309542.994	776.72012	1.96	TF-12-07	781.299
2447648.352	309542.994	776.27404	1.73	TF-12-07	781.299
2447648.352	309542.994	775.78204	1.68	TF-12-07	781.299
2447648.352	309542.994	775.29332	1.69	TF-12-07	781.299
2447648.352	309542.994	774.8374	1.6	TF-12-07	781.299
2447648.352	309542.994	774.3454	1.6	TF-12-07	781.299
2447648.352	309542.994	773.91572	1.57	TF-12-07	781.299
2447648.352	309542.994	773.49588	1.58	TF-12-07	781.299
2447648.352	309542.994	773.0662	2.31	TF-12-07	781.299
2447648.352	309542.994	772.60372	10.52	TF-12-07	781.299
2447648.352	309542.994	772.1478	11.89	TF-12-07	781.299
2447648.352	309542.994	771.71812	12.75	TF-12-07	781.299
2447648.352	309542.994	771.28844	7.29	TF-12-07	781.299
2447648.352	309542.994	770.77676	4.11	TF-12-07	781.299
2447648.352	309542.994	770.30444	12.31	TF-12-07	781.299
2447648.352	309542.994	769.86492	14.6	TF-12-07	781.299
2447648.352	309542.994	769.409	16.92	TF-12-07	781.299
2447648.352	309542.994	768.95964	36.69	TF-12-07	781.299
2447648.352	309542.994	768.57588	57.8	TF-12-07	781.299
2447648.352	309542.994	768.14292	6.76	TF-12-07	781.299
2447648.352	309542.994	767.74276	2.18	TF-12-07	781.299
2447648.352	309542.994	767.29012	2.58	TF-12-07	781.299
2447648.352	309542.994	766.80468	2.22	TF-12-07	781.299
2447648.352	309542.994	766.32252	2.27	TF-12-07	781.299
2447648.352	309542.994	765.86332	2	TF-12-07	781.299

014984

```
2447648.352 309542.994  765.36804   2.06    TF-12-07    781.299
2447648.352 309542.994  764.86948   1.99    TF-12-07    781.299
2447648.352 309542.994  764.41356   1.75    TF-12-07    781.299
2447648.352 309542.994  764.22332   1.81    TF-12-07    781.299
2447573.86  309499.632  781.932 1.5 TF-12-08    781.932
2447573.86  309499.632  781.49248   1.79    TF-12-08    781.932
2447573.86  309499.632  781.02016   1.27    TF-12-08    781.932
2447573.86  309499.632  780.57736   1.47    TF-12-08    781.932
2447573.86  309499.632  780.12144   1.17    TF-12-08    781.932
2447573.86  309499.632  779.6688    1.13    TF-12-08    781.932
2447573.86  309499.632  779.23912   1.19    TF-12-08    781.932
2447573.86  309499.632  778.7832    1.25    TF-12-08    781.932
2447573.86  309499.632  778.29776   1.14    TF-12-08    781.932
2447573.86  309499.632  777.81888   1.25    TF-12-08    781.932
2447573.86  309499.632  777.32688   1.32    TF-12-08    781.932
2447573.86  309499.632  776.8808    1.2 TF-12-08    781.932
2447573.86  309499.632  776.36912   1.23    TF-12-08    781.932
2447573.86  309499.632  775.93944   1.11    TF-12-08    781.932
2447573.86  309499.632  775.41792   1.12    TF-12-08    781.932
2447573.86  309499.632  774.93576   1.1 TF-12-08    781.932
2447573.86  309499.632  774.50608   1.2 TF-12-08    781.932
2447573.86  309499.632  774.07312   1.11    TF-12-08    781.932
2447573.86  309499.632  773.80744   1.13    TF-12-08    781.932
2447612.887 309495.37   781.214 0.67    TF-12-09    781.214
2447612.887 309495.37   780.73184   0.74    TF-12-09    781.214
2447612.887 309495.37   780.26936   0.72    TF-12-09    781.214
2447612.887 309495.37   779.8036    0.81    TF-12-09    781.214
2447612.887 309495.37   779.35096   0.81    TF-12-09    781.214
2447612.887 309495.37   778.84912   0.82    TF-12-09    781.214
2447612.887 309495.37   778.34072   0.8 TF-12-09    781.214
2447612.887 309495.37   777.88152   0.82    TF-12-09    781.214
2447612.887 309495.37   777.3764    0.67    TF-12-09    781.214
2447612.887 309495.37   776.91392   0.89    TF-12-09    781.214
2447612.887 309495.37   776.4744    0.84    TF-12-09    781.214
2447612.887 309495.37   775.99552   0.86    TF-12-09    781.214
2447612.887 309495.37   775.4904    0.8 TF-12-09    781.214
2447612.887 309495.37   775.02792   0.76    TF-12-09    781.214
2447612.887 309495.37   774.59168   1.02    TF-12-09    781.214
2447612.887 309495.37   774.12264   0.9 TF-12-09    781.214
2447612.887 309495.37   773.65032   0.62    TF-12-09    781.214
2447612.887 309495.37   773.16488   0.77    TF-12-09    781.214
2447612.887 309495.37   772.7188    0.77    TF-12-09    781.214
2447612.887 309495.37   772.27272   0.82    TF-12-09    781.214
2447612.887 309495.37   771.80696   0.55    TF-12-09    781.214
2447612.887 309495.37   771.75776   0.75    TF-12-09    781.214
2447654.147 309502.983  781.44  -0.14   TF-12-10    781.44
2447654.147 309502.983  780.98408   1.03    TF-12-10    781.44
2447654.147 309502.983  780.49864   0.88    TF-12-10    781.44
2447654.147 309502.983  780.04928   0.77    TF-12-10    781.44
2447654.147 309502.983  779.58024   0.77    TF-12-10    781.44
2447654.147 309502.983  779.062 0.71    TF-12-10    781.44
2447654.147 309502.983  778.58312   1.11    TF-12-10    781.44
2447654.147 309502.983  778.06816   0.85    TF-12-10    781.44
2447654.147 309502.983  777.54336   0.91    TF-12-10    781.44
2447654.147 309502.983  777.01528   0.79    TF-12-10    781.44
2447654.147 309502.983  776.57904   0.66    TF-12-10    781.44
2447654.147 309502.983  776.1428    0.73    TF-12-10    781.44
2447654.147 309502.983  775.6508    0.75    TF-12-10    781.44
2447654.147 309502.983  775.21128   0.74    TF-12-10    781.44
2447654.147 309502.983  774.74224   0.92    TF-12-10    781.44
2447654.147 309502.983  774.29616   0.72    TF-12-10    781.44
2447654.147 309502.983  773.84352   0.79    TF-12-10    781.44
2447654.147 309502.983  773.39744   0.67    TF-12-10    781.44
2447654.147 309502.983  772.9284    0.81    TF-12-10    781.44
```


014985

```
2447654.147 309502.983  772.48232   0.92    TF-12-10    781.44
2447654.147 309502.983  771.9936    0.8 TF-12-10    781.44
2447654.147 309502.983  771.54096   0.77    TF-12-10    781.44
2447654.147 309502.983  771.0916    0.8 TF-12-10    781.44
2447654.147 309502.983  770.64552   0.71    TF-12-10    781.44
2447654.147 309502.983  770.17648   0.89    TF-12-10    781.44
2447654.147 309502.983  769.67136   0.89    TF-12-10    781.44
2447654.147 309502.983  769.55984   0.88    TF-12-10    781.44
2448442.603 310266.542  815.258 1.3 TF-13-01    815.258
2448442.603 310266.542  814.76928   0.71    TF-13-01    815.258
2448442.603 310266.542  814.33632   0.56    TF-13-01    815.258
2448442.603 310266.542  814.19528   0.43    TF-13-01    815.258
2448462.676 310237.875  815.635 0.68    TF-13-02    815.635
2448462.676 310237.875  815.31684   0.8 TF-13-02    815.635
2447321.025 310672.495  808.299 0.6 WIL-01  808.299
2447321.025 310672.495  808.26292   0.17    WIL-01  808.299
2447321.025 310672.495  808.22028   0.15    WIL-01  808.299
2447321.025 310672.495  808.15468   0.09    WIL-01  808.299
2447321.025 310672.495  808.02348   0.05    WIL-01  808.299
2447321.025 310672.495  808.01364   0   WIL-01  808.299
2447321.025 310672.495  807.8398    0.03    WIL-01  808.299
2447243.61  310590.84   803.208 0.88    WIL-03  803.208
2447243.61  310590.84   803.044 37.14   WIL-03  803.208
2447243.61  310590.84   802.5684    1.57    WIL-03  803.208
2447243.61  310590.84   802.13872   0.75    WIL-03  803.208
2447243.61  310590.84   801.6172    0.68    WIL-03  803.208
2447243.61  310590.84   801.33184   0.73    WIL-03  803.208
2447243.61  310590.84   803.208 0.52    WIL-03A 803.208
2447243.61  310590.84   802.77176   0.58    WIL-03A 803.208
2447243.61  310590.84   802.30928   0.46    WIL-03A 803.208
2447243.61  310590.84   801.82712   0.5 WIL-03A 803.208
2447243.61  310590.84   801.37776   0.54    WIL-03A 803.208
2447243.61  310590.84   801.20064   0.44    WIL-03A 803.208
2447202.826 310536.216  800.411 0.17    WIL-04  800.411
2447202.826 310536.216  799.94524   0.63    WIL-04  800.411
2447202.826 310536.216  799.4762    0.29    WIL-04  800.411
2447202.826 310536.216  799.04324   0.3 WIL-04  800.411
2447202.826 310536.216  798.57748   0.22    WIL-04  800.411
2447202.826 310536.216  798.1314    0.28    WIL-04  800.411
2447202.826 310536.216  797.68532   0.03    WIL-04  800.411
2447202.826 310536.216  797.23596   0.04    WIL-04  800.411
2447202.826 310536.216  796.7866    0.09    WIL-04  800.411
2447202.826 310536.216  796.76036   -0.04   WIL-04  800.411
2447138.389 310453.977  796.078 0.48    WIL-05  796.078
2447138.389 310453.977  795.57616   0.62    WIL-05  796.078
2447138.389 310453.977  795.21208   0.47    WIL-05  796.078
2447138.389 310453.977  794.76928   2.19    WIL-05  796.078
2447138.389 310453.977  794.766 0.41    WIL-05  796.078
2447138.389 310453.977  794.33304   0.44    WIL-05  796.078
2447138.389 310453.977  794.29696   4.36    WIL-05  796.078
2447138.389 310453.977  793.83448   1.32    WIL-05  796.078
2447138.389 310453.977  793.39168   0.57    WIL-05  796.078
2447138.389 310453.977  792.94232   0.39    WIL-05  796.078
2447138.389 310453.977  792.69304   0.35    WIL-05  796.078
2447138.389 310453.977  792.63728   0.19    WIL-05  796.078
2447138.389 310453.977  792.18792   1.33    WIL-05  796.078
2447138.389 310453.977  791.732 0.41    WIL-05  796.078
2447138.389 310453.977  791.56144   0.18    WIL-05  796.078
2447138.389 310453.977  791.15144   0.05    WIL-05  796.078
2447138.389 310453.977  790.6988    0.57    WIL-05  796.078
2447138.389 310453.977  790.26912   0.7 WIL-05  796.078
2447138.389 310453.977  789.7968    0.12    WIL-05  796.078
2447138.389 310453.977  789.55736   1.15    WIL-05  796.078
2447138.389 310453.977  789.49832   0.03    WIL-05  796.078
```

```
2447138.389 310453.977  789.0588    0.74    WIL-05  796.078
2447138.389 310453.977  788.62584   0.33    WIL-05  796.078
2447138.389 310453.977  788.55696   1.21    WIL-05  796.078
2447138.389 310453.977  788.54056   0   WIL-05  796.078
2447138.389 310453.977  788.51104   0.1 WIL-05  796.078
2447138.389 310453.977  788.4192    1.29    WIL-05  796.078
2447138.389 310453.977  788.26504   0.08    WIL-05  796.078
2447138.389 310453.977  787.77304   0.44    WIL-05  796.078
2447138.389 310453.977  787.33024   0.18    WIL-05  796.078
2447138.389 310453.977  787.15968   2.19    WIL-05  796.078
2447138.389 310453.977  786.68736   0.08    WIL-05  796.078
2447138.389 310453.977  786.67096   1.77    WIL-05  796.078
2447138.389 310453.977  786.62832   0.03    WIL-05  796.078
2447138.389 310453.977  786.61192   1.91    WIL-05  796.078
2447138.389 310453.977  786.5824    0.05    WIL-05  796.078
2447138.389 310453.977  786.52664   1.44    WIL-05  796.078
2447138.389 310453.977  786.51352   0   WIL-05  796.078
2447138.389 310453.977  786.47088   1.91    WIL-05  796.078
2447138.389 310453.977  786.4676    0.12    WIL-05  796.078
2447138.389 310453.977  786.01496   0.16    WIL-05  796.078
2447138.389 310453.977  785.73288   1.51    WIL-05  796.078
2447138.389 310453.977  785.7132    0.01    WIL-05  796.078
2447138.389 310453.977  785.45736   1.32    WIL-05  796.078
2447138.389 310453.977  785.37864   0.01    WIL-05  796.078
2447138.389 310453.977  785.28024   1.02    WIL-05  796.078
2447138.389 310453.977  784.90304   0.05    WIL-05  796.078
2447138.389 310453.977  784.46024   0.17    WIL-05  796.078
2447138.389 310453.977  784.024 2.51    WIL-05  796.078
2447138.389 310453.977  783.56152   0.89    WIL-05  796.078
2447138.389 310453.977  783.12528   7.02    WIL-05  796.078
2447138.389 310453.977  782.65952   2.48    WIL-05  796.078
2447138.389 310453.977  782.2856    0.14    WIL-05  796.078
2447138.389 310453.977  781.83952   124.08  WIL-05  796.078
2447138.389 310453.977  781.37704   232.93  WIL-05  796.078
2447138.389 310453.977  781.18024   363.3   WIL-05  796.078
2447138.389 310453.977  781.072 2.23    WIL-05  796.078
2447138.389 310453.977  780.63248   327.69  WIL-05  796.078
2447138.389 310453.977  780.59312   396.42  WIL-05  796.078
2447138.389 310453.977  780.57344   1.83    WIL-05  796.078
2447138.389 310453.977  780.47176   368.04  WIL-05  796.078
2447138.389 310453.977  780.46848   3.61    WIL-05  796.078
2447138.389 310453.977  780.42584   210.74  WIL-05  796.078
2447138.389 310453.977  779.99616   47.01   WIL-05  796.078
2447138.389 310453.977  779.5468    12.32   WIL-05  796.078
2447138.389 310453.977  779.38608   1.24    WIL-05  796.078
2447138.389 310453.977  779.01544   12.56   WIL-05  796.078
2447138.389 310453.977  778.55952   3.75    WIL-05  796.078
2447138.389 310453.977  778.07736   1.99    WIL-05  796.078
2447138.389 310453.977  777.5952    1.62    WIL-05  796.078
2447138.389 310453.977  777.16552   0.86    WIL-05  796.078
2447138.389 310453.977  777.1032    0.98    WIL-05  796.078
2447142.591 310378.516  792.476 0.53    WIL-06  792.476
2447142.591 310378.516  792.03648   0.33    WIL-06  792.476
2447142.591 310378.516  791.6068    1.04    WIL-06  792.476
2447142.591 310378.516  791.14104   1.01    WIL-06  792.476
2447142.591 310378.516  790.6392    1.26    WIL-06  792.476
2447142.591 310378.516  790.20952   1.45    WIL-06  792.476
2447142.591 310378.516  789.75688   1.31    WIL-06  792.476
2447142.591 310378.516  789.33048   1.12    WIL-06  792.476
2447105.008 310337.706  790.16  0.02    WIL-07  790.16
2447105.008 310337.706  790.10752   2.37    WIL-07  790.16
2447105.008 310337.706  789.66144   0.4 WIL-07  790.16
2447105.008 310337.706  789.422 0.13    WIL-07  790.16
2447105.008 310337.706  788.96936   0.34    WIL-07  790.16
```

2447105.008	310337.706	788.52	0.41	WIL-07	790.16
2447105.008	310337.706	788.06736	0.44	WIL-07	790.16
2447105.008	310337.706	787.62456	0.54	WIL-07	790.16
2447105.008	310337.706	787.49664	0.28	WIL-07	790.16
2447044.157	310311.125	791.066	-0.2	WIL-08	791.066
2447044.157	310311.125	790.61664	0.19	WIL-08	791.066
2447044.157	310311.125	790.12464	0.08	WIL-08	791.066
2447044.157	310311.125	789.69496	0.25	WIL-08	791.066
2447044.157	310311.125	789.23904	0.4	WIL-08	791.066
2447044.157	310311.125	788.78312	0.2	WIL-08	791.066
2447044.157	310311.125	788.33704	0.3	WIL-08	791.066
2447044.157	310311.125	787.86144	0.16	WIL-08	791.066
2447044.157	310311.125	787.41864	0.08	WIL-08	791.066
2447044.157	310311.125	786.97912	0.07	WIL-08	791.066
2447044.157	310311.125	786.52648	0.08	WIL-08	791.066
2447044.157	310311.125	786.09024	0.1	WIL-08	791.066
2447044.157	310311.125	785.64744	-0.01	WIL-08	791.066
2447044.157	310311.125	785.162	0.15	WIL-08	791.066
2447044.157	310311.125	784.72904	0.09	WIL-08	791.066
2447044.157	310311.125	784.29608	-0.93	WIL-08	791.066
2447044.157	310311.125	783.82048	-0.04	WIL-08	791.066
2447044.157	310311.125	783.38424	-0.07	WIL-08	791.066
2447044.157	310311.125	782.88568	0.22	WIL-08	791.066
2447044.157	310311.125	782.3904	-0.41	WIL-08	791.066
2447044.157	310311.125	781.93776	-0.08	WIL-08	791.066
2447044.157	310311.125	781.48184	-0.23	WIL-08	791.066
2447044.157	310311.125	780.99968	-0.22	WIL-08	791.066
2447044.157	310311.125	780.5044	-0.32	WIL-08	791.066
2447044.157	310311.125	780.07144	-0.18	WIL-08	791.066
2447044.157	310311.125	779.98944	-0.24	WIL-08	791.066
2447006.457	310277.044	789.665	93.46	WIL-09	789.665
2447006.457	310277.044	789.65516	0.36	WIL-09	789.665
2447006.457	310277.044	789.5338	0.24	WIL-09	789.665
2447006.457	310277.044	789.46164	0.12	WIL-09	789.665
2447006.457	310277.044	789.34684	0.03	WIL-09	789.665
2447006.457	310277.044	788.88108	0.04	WIL-09	789.665
2447006.457	310277.044	788.6974	0.18	WIL-09	789.665
2447006.457	310277.044	788.67444	0	WIL-09	789.665
2447005.124	310274.81	790.778	0.15	WIL-09A	790.778
2447005.124	310274.81	790.3352	0.07	WIL-09A	790.778
2447005.124	310274.81	789.85632	0	WIL-09A	790.778
2447005.124	310274.81	789.39712	0.19	WIL-09A	790.778
2447005.124	310274.81	788.9576	0.1	WIL-09A	790.778
2447005.124	310274.81	788.482	-0.03	WIL-09A	790.778
2447005.124	310274.81	788.02608	-0.06	WIL-09A	790.778
2447005.124	310274.81	787.56032	-0.08	WIL-09A	790.778
2447005.124	310274.81	787.11096	-0.14	WIL-09A	790.778
2447005.124	310274.81	786.64192	-0.04	WIL-09A	790.778
2447005.124	310274.81	786.1696	-0.05	WIL-09A	790.778
2447005.124	310274.81	785.73992	0.02	WIL-09A	790.778
2447005.124	310274.81	785.24136	-0.03	WIL-09A	790.778
2447005.124	310274.81	784.77888	0.02	WIL-09A	790.778
2447005.124	310274.81	784.32624	0.01	WIL-09A	790.778
2447005.124	310274.81	783.88672	0.08	WIL-09A	790.778
2447005.124	310274.81	783.43408	-0.35	WIL-09A	790.778
2447005.124	310274.81	782.99784	-0.43	WIL-09A	790.778
2447005.124	310274.81	782.56488	-0.47	WIL-09A	790.778
2447005.124	310274.81	782.5616	-0.46	WIL-09A	790.778
2446955.831	310215.752	788.605	0.56	WIL-10	788.605
2446955.831	310215.752	788.13596	-0.31	WIL-10	788.605
2446955.831	310215.752	787.69316	-0.52	WIL-10	788.605
2446955.831	310215.752	787.23724	-0.56	WIL-10	788.605
2446955.831	310215.752	786.71572	-0.31	WIL-10	788.605
2446955.831	310215.752	786.2762	-0.25	WIL-10	788.605

014988

```
2446955.831 310215.752  785.82356   -0.44   WIL-10  788.605
2446955.831 310215.752  785.32828   -0.55   WIL-10  788.605
2446955.831 310215.752  784.84612   -0.47   WIL-10  788.605
2446955.831 310215.752  784.35412   -0.51   WIL-10  788.605
2446955.831 310215.752  783.90804   -0.5    WIL-10  788.605
2446955.831 310215.752  783.46196   -0.39   WIL-10  788.605
2446955.831 310215.752  783.01916   -0.53   WIL-10  788.605
2446955.831 310215.752  782.57308   -0.52   WIL-10  788.605
2446955.831 310215.752  782.14012   -0.54   WIL-10  788.605
2446955.831 310215.752  781.6514    -0.44   WIL-10  788.605
2446955.831 310215.752  781.20204   -0.55   WIL-10  788.605
2446955.831 310215.752  780.733 -0.39   WIL-10  788.605
2446955.831 310215.752  780.23772   -0.68   WIL-10  788.605
2446955.831 310215.752  779.77524   -0.27   WIL-10  788.605
2446955.831 310215.752  779.31932   -0.38   WIL-10  788.605
2446955.831 310215.752  778.87324   -0.46   WIL-10  788.605
2446955.831 310215.752  778.43372   -0.39   WIL-10  788.605
2446955.831 310215.752  777.98108   -0.17   WIL-10  788.605
2446955.831 310215.752  777.53828   -0.46   WIL-10  788.605
2446955.831 310215.752  777.0594    -0.34   WIL-10  788.605
2446955.831 310215.752  776.59692   -0.52   WIL-10  788.605
2446955.831 310215.752  776.11476   -0.28   WIL-10  788.605
2446955.831 310215.752  775.62276   -0.52   WIL-10  788.605
2446955.831 310215.752  775.157 -0.24   WIL-10  788.605
2446955.831 310215.752  774.69124   -0.27   WIL-10  788.605
2446955.831 310215.752  774.19268   0.27    WIL-10  788.605
2446955.831 310215.752  773.74988   -0.05   WIL-10  788.605
2446955.831 310215.752  773.52356   -0.22   WIL-10  788.605
2446948.055 310181.68   786.529 0.1 WIL-11  786.529
2446948.055 310181.68   785.64996   -0.37   WIL-11  786.529
2446948.055 310181.68   785.19732   -0.31   WIL-11  786.529
2446948.055 310181.68   784.75452   -0.44   WIL-11  786.529
2446948.055 310181.68   784.31828   -0.04   WIL-11  786.529
2446948.055 310181.68   783.8394    -0.18   WIL-11  786.529
2446948.055 310181.68   783.38348   -0.42   WIL-11  786.529
2446948.055 310181.68   782.92428   -0.53   WIL-11  786.529
2446948.055 310181.68   782.47492   -0.19   WIL-11  786.529
2446948.055 310181.68   782.04196   -0.52   WIL-11  786.529
2446948.055 310181.68   781.53028   -0.34   WIL-11  786.529
2446948.055 310181.68   781.05796   -0.36   WIL-11  786.529
2446948.055 310181.68   780.61188   -0.49   WIL-11  786.529
2446948.055 310181.68   780.15924   -0.73   WIL-11  786.529
2446948.055 310181.68   779.70004   -0.55   WIL-11  786.529
2446948.055 310181.68   779.22116   -0.35   WIL-11  786.529
2446948.055 310181.68   778.7718    -0.33   WIL-11  786.529
2446948.055 310181.68   778.32244   -0.16   WIL-11  786.529
2446948.055 310181.68   777.87636   -0.31   WIL-11  786.529
2446948.055 310181.68   777.41388   -0.44   WIL-11  786.529
2446948.055 310181.68   776.94812   -0.31   WIL-11  786.529
2446948.055 310181.68   776.51188   -0.58   WIL-11  786.529
2446948.055 310181.68   776.0822    -0.34   WIL-11  786.529
2446948.055 310181.68   775.62956   -0.44   WIL-11  786.529
2446948.055 310181.68   775.131 -0.38   WIL-11  786.529
2446948.055 310181.68   774.66852   -0.33   WIL-11  786.529
2446948.055 310181.68   774.1798    -0.46   WIL-11  786.529
2446948.055 310181.68   773.74684   -0.55   WIL-11  786.529
2446948.055 310181.68   773.2942    -0.42   WIL-11  786.529
2446948.055 310181.68   772.8514    -0.44   WIL-11  786.529
2446948.055 310181.68   772.64148   -0.39   WIL-11  786.529
2446913.87  310146.047  784.331 0.05    WIL-12  784.331
2446913.87  310146.047  783.8554    -0.14   WIL-12  784.331
2446913.87  310146.047  783.40276   -0.15   WIL-12  784.331
2446913.87  310146.047  782.937 -0.31   WIL-12  784.331
2446913.87  310146.047  782.49748   -0.2    WIL-12  784.331
```

```
2446913.87  310146.047  782.04812   -0.13   WIL-12  784.331
2446913.87  310146.047  781.60532   0.09    WIL-12  784.331
2446913.87  310146.047  781.14612   0.04    WIL-12  784.331
2446913.87  310146.047  780.71316   0.53    WIL-12  784.331
2446913.87  310146.047  780.231 -0.09   WIL-12  784.331
2446913.87  310146.047  779.75212   0.31    WIL-12  784.331
2446913.87  310146.047  779.2798    0.16    WIL-12  784.331
2446913.87  310146.047  778.80092   -0.24   WIL-12  784.331
2446913.87  310146.047  778.35156   -0.16   WIL-12  784.331
2446913.87  310146.047  777.86612   -0.35   WIL-12  784.331
2446913.87  310146.047  777.40364   -0.05   WIL-12  784.331
2446913.87  310146.047  776.95428   -0.17   WIL-12  784.331
2446913.87  310146.047  776.45572   -0.25   WIL-12  784.331
2446913.87  310146.047  775.97684   -0.07   WIL-12  784.331
2446913.87  310146.047  775.51436   -0.11   WIL-12  784.331
2446913.87  310146.047  775.04532   -0.18   WIL-12  784.331
2446913.87  310146.047  774.59596   -0.19   WIL-12  784.331
2446913.87  310146.047  774.08428   -0.36   WIL-12  784.331
2446913.87  310146.047  773.6546    -0.23   WIL-12  784.331
2446913.87  310146.047  773.18556   -0.21   WIL-12  784.331
2446913.87  310146.047  772.70012   -0.17   WIL-12  784.331
2446913.87  310146.047  772.26388   -0.06   WIL-12  784.331
2446913.87  310146.047  772.04084   -0.16   WIL-12  784.331
2446876.427 310093.162  783.32  -0.11   WIL-13  783.32
2446876.427 310093.162  782.85096   -0.56   WIL-13  783.32
2446876.427 310093.162  782.34912   -0.47   WIL-13  783.32
2446876.427 310093.162  781.85384   -1.06   WIL-13  783.32
2446876.427 310093.162  781.36512   -0.36   WIL-13  783.32
2446876.427 310093.162  780.91576   0.15    WIL-13  783.32
2446876.427 310093.162  780.4664    -0.33   WIL-13  783.32
2446876.427 310093.162  779.99408   -0.37   WIL-13  783.32
2446876.427 310093.162  779.52176   -0.58   WIL-13  783.32
2446876.427 310093.162  779.00024   -0.25   WIL-13  783.32
2446876.427 310093.162  778.564 -0.45   WIL-13  783.32
2446876.427 310093.162  778.09496   -0.61   WIL-13  783.32
2446876.427 310093.162  777.6292    -0.13   WIL-13  783.32
2446876.427 310093.162  777.15688   -1.01   WIL-13  783.32
2446876.427 310093.162  776.69112   -0.32   WIL-13  783.32
2446876.427 310093.162  776.24176   -0.57   WIL-13  783.32
2446876.427 310093.162  775.76616   -0.34   WIL-13  783.32
2446876.427 310093.162  775.30696   -0.44   WIL-13  783.32
2446876.427 310093.162  774.83136   -0.43   WIL-13  783.32
2446876.427 310093.162  774.39184   -0.42   WIL-13  783.32
2446876.427 310093.162  774.01792   -0.45   WIL-13  783.32
2446869.481 310045.617  783.673 -0.5    WIL-14  783.673
2446869.481 310045.617  783.2302    -0.58   WIL-14  783.673
2446869.481 310045.617  782.7546    -0.63   WIL-14  783.673
2446869.481 310045.617  782.24292   -0.66   WIL-14  783.673
2446869.481 310045.617  781.81324   -0.44   WIL-14  783.673
2446869.481 310045.617  781.35404   0.77    WIL-14  783.673
2446869.481 310045.617  780.85876   1.21    WIL-14  783.673
2446869.481 310045.617  780.41924   2.5 WIL-14  783.673
2446869.481 310045.617  779.97644   4.91    WIL-14  783.673
2446869.481 310045.617  779.47788   2.28    WIL-14  783.673
2446869.481 310045.617  779.04492   1.27    WIL-14  783.673
2446869.481 310045.617  778.56604   -0.1    WIL-14  783.673
2446869.481 310045.617  778.13308   -0.33   WIL-14  783.673
2446869.481 310045.617  777.69356   -0.76   WIL-14  783.673
2446869.481 310045.617  777.22452   -1.31   WIL-14  783.673
2446869.481 310045.617  776.79156   0.48    WIL-14  783.673
2446869.481 310045.617  776.2766    -0.63   WIL-14  783.673
2446869.481 310045.617  775.84692   -1.1    WIL-14  783.673
2446869.481 310045.617  775.40084   -0.79   WIL-14  783.673
2446869.481 310045.617  774.93836   -0.91   WIL-14  783.673
```

```
2446869.481 310045.617  774.49228   -0.72   WIL-14  783.673
2446869.481 310045.617  774.04948   -0.67   WIL-14  783.673
2446869.481 310045.617  773.58044   -0.66   WIL-14  783.673
2446869.481 310045.617  773.14748   -0.64   WIL-14  783.673
2446869.481 310045.617  772.67844   -0.83   WIL-14  783.673
2446869.481 310045.617  772.23892   -1.18   WIL-14  783.673
2446869.481 310045.617  771.7994    -0.71   WIL-14  783.673
2446869.481 310045.617  771.48124   -0.71   WIL-14  783.673
2446920.467 310013.691  782.732 -0.77   WIL-15  782.732
2446920.467 310013.691  782.24328   -0.87   WIL-15  782.732
2446920.467 310013.691  781.71848   -0.88   WIL-15  782.732
2446920.467 310013.691  781.27896   -0.64   WIL-15  782.732
2446920.467 310013.691  780.84272   -0.74   WIL-15  782.732
2446920.467 310013.691  780.3376    -0.69   WIL-15  782.732
2446920.467 310013.691  779.90136   -0.7    WIL-15  782.732
2446920.467 310013.691  779.44216   -0.61   WIL-15  782.732
2446920.467 310013.691  778.9272    -0.94   WIL-15  782.732
2446920.467 310013.691  778.49424   -0.62   WIL-15  782.732
2446920.467 310013.691  778.00224   -0.72   WIL-15  782.732
2446920.467 310013.691  777.49712   -0.77   WIL-15  782.732
2446920.467 310013.691  777.03136   -0.88   WIL-15  782.732
2446920.467 310013.691  776.56888   -0.96   WIL-15  782.732
2446920.467 310013.691  776.09  -0.87   WIL-15  782.732
2446920.467 310013.691  775.62096   -0.77   WIL-15  782.732
2446920.467 310013.691  775.13552   -0.9    WIL-15  782.732
2446920.467 310013.691  774.67632   -0.05   WIL-15  782.732
2446920.467 310013.691  774.21056   -0.57   WIL-15  782.732
2446920.467 310013.691  773.69232   -0.77   WIL-15  782.732
2446920.467 310013.691  773.1708    -0.7    WIL-15  782.732
2446920.467 310013.691  772.69848   -0.67   WIL-15  782.732
2446920.467 310013.691  772.22944   -0.75   WIL-15  782.732
2446920.467 310013.691  771.79648   -0.85   WIL-15  782.732
2446920.467 310013.691  771.4488    -0.57   WIL-15  782.732
2446970.606 309978.32   783.93  -1.26   WIL-16  783.93
2446970.606 309978.32   783.46752   -0.37   WIL-16  783.93
2446970.606 309978.32   782.97224   -0.91   WIL-16  783.93
2446970.606 309978.32   782.50976   -0.69   WIL-16  783.93
2446970.606 309978.32   782.03088   -0.85   WIL-16  783.93
2446970.606 309978.32   781.58152   -0.94   WIL-16  783.93
2446970.606 309978.32   781.14528   -1  WIL-16  783.93
2446970.606 309978.32   780.70248   -0.9    WIL-16  783.93
2446970.606 309978.32   780.24328   -1.46   WIL-16  783.93
2446970.606 309978.32   779.7972    -0.95   WIL-16  783.93
2446970.606 309978.32   779.36096   -1.19   WIL-16  783.93
2446970.606 309978.32   778.928 -1.21   WIL-16  783.93
2446970.606 309978.32   778.49176   -1.17   WIL-16  783.93
2446970.606 309978.32   778.04568   -0.98   WIL-16  783.93
2446970.606 309978.32   777.57008   -1.16   WIL-16  783.93
2446970.606 309978.32   777.1076    -1.06   WIL-16  783.93
2446970.606 309978.32   776.67136   -1.07   WIL-16  783.93
2446970.606 309978.32   776.22856   -1.24   WIL-16  783.93
2446970.606 309978.32   775.76608   -1.29   WIL-16  783.93
2446970.606 309978.32   775.32328   -0.54   WIL-16  783.93
2446970.606 309978.32   774.87392   -1.31   WIL-16  783.93
2446970.606 309978.32   774.41472   -1.12   WIL-16  783.93
2446970.606 309978.32   773.95224   -1.25   WIL-16  783.93
2446970.606 309978.32   773.48648   -0.61   WIL-16  783.93
2446970.606 309978.32   773.04696   -0.99   WIL-16  783.93
2446970.606 309978.32   772.5976    -1.4    WIL-16  783.93
2446970.606 309978.32   772.07608   -1.06   WIL-16  783.93
2446970.606 309978.32   771.5808    -0.91   WIL-16  783.93
2446970.606 309978.32   771.09864   -1.25   WIL-16  783.93
2446970.606 309978.32   770.6132    -0.9    WIL-16  783.93
2446970.606 309978.32   770.154 -0.88   WIL-16  783.93
```

```
2446970.606 309978.32   769.6948    -0.74   WIL-16  783.93
2446970.606 309978.32   769.1536    -1.53   WIL-16  783.93
2446970.606 309978.32   768.65176   -1.01   WIL-16  783.93
2446970.606 309978.32   768.1532    -1.31   WIL-16  783.93
2446970.606 309978.32   767.65136   -1.24   WIL-16  783.93
2446970.606 309978.32   767.16264   -0.91   WIL-16  783.93
2446970.606 309978.32   766.81168   -0.93   WIL-16  783.93
2447032.52  309968.117  783.728 0.28    WIL-17  783.728
2447032.52  309968.117  783.154 -0.53   WIL-17  783.728
2447032.52  309968.117  782.71776   -0.55   WIL-17  783.728
2447032.52  309968.117  782.27824   -0.72   WIL-17  783.728
2447032.52  309968.117  781.83216   -0.72   WIL-17  783.728
2447032.52  309968.117  781.3828    -0.62   WIL-17  783.728
2447032.52  309968.117  780.95312   -0.78   WIL-17  783.728
2447032.52  309968.117  780.52344   -0.68   WIL-17  783.728
2447032.52  309968.117  780.04456   -0.61   WIL-17  783.728
2447032.52  309968.117  779.60504   -0.7    WIL-17  783.728
2447032.52  309968.117  779.15896   -0.83   WIL-17  783.728
2447032.52  309968.117  778.69976   -0.69   WIL-17  783.728
2447032.52  309968.117  778.23728   -0.59   WIL-17  783.728
2447032.52  309968.117  777.78464   -0.73   WIL-17  783.728
2447032.52  309968.117  777.35496   -0.56   WIL-17  783.728
2447032.52  309968.117  776.89904   -0.81   WIL-17  783.728
2447032.52  309968.117  776.45296   -0.82   WIL-17  783.728
2447032.52  309968.117  775.9708    -0.78   WIL-17  783.728
2447032.52  309968.117  775.45912   -0.58   WIL-17  783.728
2447032.52  309968.117  775.02616   -0.69   WIL-17  783.728
2447032.52  309968.117  774.58336   -0.78   WIL-17  783.728
2447032.52  309968.117  774.15368   -0.73   WIL-17  783.728
2447032.52  309968.117  773.68464   -0.78   WIL-17  783.728
2447032.52  309968.117  773.20248   -0.72   WIL-17  783.728
2447032.52  309968.117  772.68096   -0.73   WIL-17  783.728
2447032.52  309968.117  772.20208   -0.65   WIL-17  783.728
2447032.52  309968.117  771.70352   -0.46   WIL-17  783.728
2447032.52  309968.117  771.21808   -0.54   WIL-17  783.728
2447032.52  309968.117  770.71624   -0.66   WIL-17  783.728
2447032.52  309968.117  770.21768   -0.66   WIL-17  783.728
2447032.52  309968.117  769.76176   -0.21   WIL-17  783.728
2447032.52  309968.117  769.32552   -0.53   WIL-17  783.728
2447032.52  309968.117  768.84664   -0.27   WIL-17  783.728
2447032.52  309968.117  768.35136   -0.41   WIL-17  783.728
2447032.52  309968.117  767.89544   -0.47   WIL-17  783.728
2447032.52  309968.117  767.4264    -0.68   WIL-17  783.728
2447032.52  309968.117  766.94096   -0.53   WIL-17  783.728
2447032.52  309968.117  766.50472   -0.41   WIL-17  783.728
2447032.52  309968.117  766.03896   -0.57   WIL-17  783.728
2447032.52  309968.117  765.55024   -0.64   WIL-17  783.728
2447032.52  309968.117  765.03856   -0.49   WIL-17  783.728
2447032.52  309968.117  764.56624   -0.27   WIL-17  783.728
2447032.52  309968.117  764.13656   -0.62   WIL-17  783.728
2447032.52  309968.117  763.67408   -0.53   WIL-17  783.728
2447032.52  309968.117  763.18864   -0.53   WIL-17  783.728
2447032.52  309968.117  762.66056   -0.2    WIL-17  783.728
2447032.52  309968.117  762.1948    -0.37   WIL-17  783.728
2447032.52  309968.117  761.6864    -0.09   WIL-17  783.728
2447032.52  309968.117  761.25672   -0.15   WIL-17  783.728
2447032.52  309968.117  760.74504   -0.13   WIL-17  783.728
2447032.52  309968.117  760.276 -0.36   WIL-17  783.728
2447032.52  309968.117  760.14152   -0.29   WIL-17  783.728
2447091.815 309977.165  784.799 0.73    WIL-18  784.799
2447091.815 309977.165  784.3562    0.64    WIL-18  784.799
2447091.815 309977.165  784.00524   0.33    WIL-18  784.799
2447091.815 309977.165  783.55916   1.06    WIL-18  784.799
2447091.815 309977.165  783.34268   0.29    WIL-18  784.799
```

```
2447091.815 309977.165  783.3394    0.26    WIL-18  784.799
2447091.815 309977.165  782.90316   1.52    WIL-18  784.799
2447091.815 309977.165  782.78836   2.44    WIL-18  784.799
2447091.815 309977.165  782.339 1.06    WIL-18  784.799
2447091.815 309977.165  781.89948   1.02    WIL-18  784.799
2447091.815 309977.165  781.44356   0.55    WIL-18  784.799
2447091.815 309977.165  780.97124   0.57    WIL-18  784.799
2447091.815 309977.165  780.92532   0.17    WIL-18  784.799
2447091.815 309977.165  780.66948   0.13    WIL-18  784.799
2447091.815 309977.165  780.22996   0.68    WIL-18  784.799
2447091.815 309977.165  779.74452   0.68    WIL-18  784.799
2447091.815 309977.165  779.29844   0.23    WIL-18  784.799
2447091.815 309977.165  779.0426    0.68    WIL-18  784.799
2447091.815 309977.165  778.95076   0.04    WIL-18  784.799
2447091.815 309977.165  778.895 0.79    WIL-18  784.799
2447091.815 309977.165  778.42268   0.25    WIL-18  784.799
2447091.815 309977.165  777.97004   0.33    WIL-18  784.799
2447091.815 309977.165  777.5174    0.05    WIL-18  784.799
2447091.815 309977.165  777.0254    0.11    WIL-18  784.799
2447091.815 309977.165  776.56292   0.14    WIL-18  784.799
2447091.815 309977.165  776.49404   0.69    WIL-18  784.799
2447091.815 309977.165  776.37268   0.03    WIL-18  784.799
2447091.815 309977.165  775.943 0.07    WIL-18  784.799
2447091.815 309977.165  775.44444   0.42    WIL-18  784.799
2447091.815 309977.165  774.99836   -0.02   WIL-18  784.799
2447091.815 309977.165  774.62116   0.32    WIL-18  784.799
2447091.815 309977.165  774.4342    0.01    WIL-18  784.799
2447091.815 309977.165  774.36204   0.25    WIL-18  784.799
2447091.815 309977.165  774.31612   0   WIL-18  784.799
2447091.815 309977.165  774.23412   0.27    WIL-18  784.799
2447091.815 309977.165  774.13572   0.15    WIL-18  784.799
2447091.815 309977.165  774.03732   0   WIL-18  784.799
2447091.815 309977.165  773.99796   0.12    WIL-18  784.799
2447091.815 309977.165  773.76836   0.08    WIL-18  784.799
2447091.815 309977.165  773.68308   0.07    WIL-18  784.799
2447091.815 309977.165  773.60108   0.05    WIL-18  784.799
2447091.815 309977.165  773.33212   0.03    WIL-18  784.799
2447091.815 309977.165  773.155 0.35    WIL-18  784.799
2447091.815 309977.165  772.70564   -0.03   WIL-18  784.799
2447091.815 309977.165  772.23004   0.25    WIL-18  784.799
2447091.815 309977.165  771.78724   -0.05   WIL-18  784.799
2447091.815 309977.165  771.53468   0.16    WIL-18  784.799
2447091.815 309977.165  771.48876   0.09    WIL-18  784.799
2447091.815 309977.165  771.41004   0   WIL-18  784.799
2447091.815 309977.165  771.36084   0.08    WIL-18  784.799
2447091.815 309977.165  770.98036   0.02    WIL-18  784.799
2447091.815 309977.165  770.777 0.24    WIL-18  784.799
2447091.815 309977.165  770.37684   0.01    WIL-18  784.799
2447091.815 309977.165  769.92748   -0.21   WIL-18  784.799
2447091.815 309977.165  769.42564   -0.19   WIL-18  784.799
2447091.815 309977.165  768.96316   0.21    WIL-18  784.799
2447091.815 309977.165  768.63844   0.58    WIL-18  784.799
2447091.815 309977.165  768.59908   0.03    WIL-18  784.799
2447091.815 309977.165  768.153 3.18    WIL-18  784.799
2447091.815 309977.165  767.9726    5.38    WIL-18  784.799
2447091.815 309977.165  767.52324   4.76    WIL-18  784.799
2447091.815 309977.165  767.05748   2.95    WIL-18  784.799
2447091.815 309977.165  766.6114    4.41    WIL-18  784.799
2447091.815 309977.165  766.32932   0.2 WIL-18  784.799
2447091.815 309977.165  766.06036   4.72    WIL-18  784.799
2447091.815 309977.165  765.60444   0.05    WIL-18  784.799
2447091.815 309977.165  765.49292   1.27    WIL-18  784.799
2447091.815 309977.165  765.04028   1.21    WIL-18  784.799
2447091.815 309977.165  764.55484   0.67    WIL-18  784.799
```


014993

```
2447091.815 309977.165  764.11532   0.1 WIL-18  784.799
2447091.815 309977.165  764.02676   0.21    WIL-18  784.799
2447091.815 309977.165  763.9382    0   WIL-18  784.799
2447091.815 309977.165  763.46916   -0.5    WIL-18  784.799
2447091.815 309977.165  763.02964   -0.39   WIL-18  784.799
2447091.815 309977.165  762.59012   -0.58   WIL-18  784.799
2447091.815 309977.165  762.16044   0.53    WIL-18  784.799
2447091.815 309977.165  761.89804   0.24    WIL-18  784.799
2447159.974 309974.824  785.722 2.8 WIL-19  785.722
2447159.974 309974.824  785.10864   1.48    WIL-19  785.722
2447159.974 309974.824  784.57072   1.42    WIL-19  785.722
2447159.974 309974.824  784.13776   2.11    WIL-19  785.722
2447159.974 309974.824  783.6884    1.71    WIL-19  785.722
2447159.974 309974.824  783.18984   1.68    WIL-19  785.722
2447159.974 309974.824  782.70112   1.35    WIL-19  785.722
2447159.974 309974.824  782.27144   1.24    WIL-19  785.722
2447159.974 309974.824  781.83192   1.71    WIL-19  785.722
2447159.974 309974.824  781.376 1.32    WIL-19  785.722
2447159.974 309974.824  780.9168    1.27    WIL-19  785.722
2447159.974 309974.824  780.474 1.39    WIL-19  785.722
2447159.974 309974.824  780.00496   1.29    WIL-19  785.722
2447159.974 309974.824  779.55232   1.24    WIL-19  785.722
2447159.974 309974.824  779.11936   1.29    WIL-19  785.722
2447159.974 309974.824  778.6864    1.35    WIL-19  785.722
2447159.974 309974.824  778.28624   1.51    WIL-19  785.722
2447151.884 310048.513  787.501 2.24    WIL-20  787.501
2447151.884 310048.513  786.93356   1.39    WIL-20  787.501
2447151.884 310048.513  786.49076   1.06    WIL-20  787.501
2447151.884 310048.513  785.96924   0.97    WIL-20  787.501
2447151.884 310048.513  785.44116   0.87    WIL-20  787.501
2447151.884 310048.513  784.89668   0.81    WIL-20  787.501
2447151.884 310048.513  784.46044   1.17    WIL-20  787.501
2447151.884 310048.513  784.00452   0.88    WIL-20  787.501
2447151.884 310048.513  783.565 0.96    WIL-20  787.501
2447151.884 310048.513  783.11236   0.69    WIL-20  787.501
2447151.884 310048.513  782.5974    0.95    WIL-20  787.501
2447151.884 310048.513  782.14804   0.9 WIL-20  787.501
2447151.884 310048.513  781.67572   0.91    WIL-20  787.501
2447151.884 310048.513  781.24604   0.85    WIL-20  787.501
2447151.884 310048.513  781.1542    0.67    WIL-20  787.501
2447151.884 310048.513  780.8098    25.81   WIL-20  787.501
2447151.884 310048.513  780.3178    0.84    WIL-20  787.501
2447151.884 310048.513  779.87172   0.74    WIL-20  787.501
2447151.884 310048.513  779.39284   0.62    WIL-20  787.501
2447151.884 310048.513  778.95332   0.69    WIL-20  787.501
2447151.884 310048.513  778.70732   0.79    WIL-20  787.501
2447154.859 310099.07   789.248 -0.5    WIL-21  789.248
2447154.859 310099.07   788.74616   -0.21   WIL-21  789.248
2447154.859 310099.07   788.21152   0.13    WIL-21  789.248
2447154.859 310099.07   787.73592   -0.19   WIL-21  789.248
2447154.859 310099.07   787.28328   -0.61   WIL-21  789.248
2447154.859 310099.07   786.84376   0.11    WIL-21  789.248
2447154.859 310099.07   786.40752   -0.26   WIL-21  789.248
2447154.859 310099.07   785.968 0.34    WIL-21  789.248
2447154.859 310099.07   785.51536   -0.64   WIL-21  789.248
2447154.859 310099.07   785.02992   0.93    WIL-21  789.248
2447154.859 310099.07   784.57072   0.57    WIL-21  789.248
2447154.859 310099.07   784.10168   0.91    WIL-21  789.248
2447154.859 310099.07   783.62608   0.68    WIL-21  789.248
2447154.859 310099.07   783.18656   0.81    WIL-21  789.248
2447154.859 310099.07   782.7536    0.95    WIL-21  789.248
2447154.859 310099.07   782.30096   0.86    WIL-21  789.248
2447154.859 310099.07   781.81224   0.65    WIL-21  789.248
2447154.859 310099.07   781.37272   0.62    WIL-21  789.248
```


014994

```
2447154.859 310099.07   780.92336   0.86    WIL-21  789.248
2447154.859 310099.07   780.4576    0.73    WIL-21  789.248
2447154.859 310099.07   779.9984    0.69    WIL-21  789.248
2447154.859 310099.07   779.82456   0.68    WIL-21  789.248
2447205.878 310170.998  793.036 -0.86   WIL-22  793.036
2447205.878 310170.998  792.55056   -1.28   WIL-22  793.036
2447205.878 310170.998  792.05528   -2  WIL-22  793.036
2447205.878 310170.998  791.58624   -1.61   WIL-22  793.036
2447205.878 310170.998  791.15656   -1.28   WIL-22  793.036
2447205.878 310170.998  790.67768   -1.52   WIL-22  793.036
2447205.878 310170.998  790.2316    -1.11   WIL-22  793.036
2447205.878 310170.998  789.75272   -1.23   WIL-22  793.036
2447205.878 310170.998  789.40176   -1.5    WIL-22  793.036
2447169.563 310241.085  792.40916   3.11    WIL-23  792.419
2447169.563 310241.085  791.96308   0.91    WIL-23  792.419
2447169.563 310241.085  791.3202    1   WIL-23  792.419
2447169.563 310241.085  790.88396   0.9 WIL-23  792.419
2447169.563 310241.085  790.11644   0.81    WIL-23  792.419
2447169.563 310241.085  789.4834    1.02    WIL-23  792.419
2447169.563 310241.085  789.02748   0.81    WIL-23  792.419
2447169.563 310241.085  788.5486    0.74    WIL-23  792.419
2447169.563 310241.085  788.11564   0.83    WIL-23  792.419
2447169.563 310241.085  787.61708   0.81    WIL-23  792.419
2447169.563 310241.085  787.14148   0.8 WIL-23  792.419
2447169.563 310241.085  786.6626    0.98    WIL-23  792.419
2447169.563 310241.085  786.22636   0.77    WIL-23  792.419
2447169.563 310241.085  785.777 0.86    WIL-23  792.419
2447169.563 310241.085  785.32764   0.93    WIL-23  792.419
2447169.563 310241.085  784.88812   0.67    WIL-23  792.419
2447169.563 310241.085  784.45844   0.88    WIL-23  792.419
2447169.563 310241.085  783.98612   0.68    WIL-23  792.419
2447169.563 310241.085  783.50724   0.6 WIL-23  792.419
2447169.563 310241.085  783.05132   0.77    WIL-23  792.419
2447169.563 310241.085  782.62164   0.77    WIL-23  792.419
2447169.563 310241.085  782.18868   0.61    WIL-23  792.419
2447169.563 310241.085  781.677 0.69    WIL-23  792.419
2447169.563 310241.085  781.185 0.65    WIL-23  792.419
2447169.563 310241.085  780.7258    0.77    WIL-23  792.419
2447169.563 310241.085  780.28628   0.69    WIL-23  792.419
2447169.563 310241.085  779.84676   0.73    WIL-23  792.419
2447169.563 310241.085  779.35804   0.57    WIL-23  792.419
2447169.563 310241.085  778.9054    0.7 WIL-23  792.419
2447169.563 310241.085  778.7578    0.6 WIL-23  792.419
2447109.983 310289.823  790.725 4.5 WIL-24  790.725
2447109.983 310289.823  790.2658    0.68    WIL-24  790.725
2447109.983 310289.823  789.495 0.54    WIL-24  790.725
2447109.983 310289.823  789.09812   0.35    WIL-24  790.725
2447109.983 310289.823  788.5602    1.52    WIL-24  790.725
2447109.983 310289.823  788.10756   2.23    WIL-24  790.725
2447109.983 310289.823  787.61228   0.42    WIL-24  790.725
2447109.983 310289.823  787.1334    0.73    WIL-24  790.725
2447109.983 310289.823  786.68076   0.57    WIL-24  790.725
2447109.983 310289.823  786.22484   0.77    WIL-24  790.725
2447109.983 310289.823  785.76892   0.54    WIL-24  790.725
2447109.983 310289.823  785.29004   0.57    WIL-24  790.725
2447109.983 310289.823  784.86036   0.67    WIL-24  790.725
2447109.983 310289.823  784.38476   0.71    WIL-24  790.725
2447109.983 310289.823  783.89932   0.38    WIL-24  790.725
2447109.983 310289.823  783.4598    0.48    WIL-24  790.725
2447109.983 310289.823  783.03012   0.66    WIL-24  790.725
2447109.983 310289.823  782.60044   0.61    WIL-24  790.725
2447109.983 310289.823  782.15764   0.56    WIL-24  790.725
2447109.983 310289.823  781.6886    0.82    WIL-24  790.725
2447109.983 310289.823  781.20316   0.6 WIL-24  790.725
```


014995

```
2447109.983 310289.823  780.73412   0.76    WIL-24  790.725
2447109.983 310289.823  780.27164   0.78    WIL-24  790.725
2447109.983 310289.823  779.80916   0.68    WIL-24  790.725
2447109.983 310289.823  779.327 0.84    WIL-24  790.725
2447109.983 310289.823  778.85468   0.68    WIL-24  790.725
2447109.983 310289.823  778.3922    0.75    WIL-24  790.725
2447109.983 310289.823  777.92972   0.93    WIL-24  790.725
2447109.983 310289.823  777.4902    0.89    WIL-24  790.725
2447109.983 310289.823  777.04412   0.71    WIL-24  790.725
2447109.983 310289.823  776.59804   0.96    WIL-24  790.725
2447109.983 310289.823  776.129 0.73    WIL-24  790.725
2447109.983 310289.823  776.02404   0.78    WIL-24  790.725
2447025.36  310363.235  793.68  0.24    WIL-25  793.68
2447025.36  310363.235  793.1388    -0.46   WIL-25  793.68
2447025.36  310363.235  792.696 -0.66   WIL-25  793.68
2447025.36  310363.235  792.14496   -0.71   WIL-25  793.68
2447025.36  310363.235  791.68904   -0.28   WIL-25  793.68
2447025.36  310363.235  791.61688   0.11    WIL-25  793.68
2447025.36  310363.235  791.14456   -0.06   WIL-25  793.68
2447025.36  310363.235  790.6788    -0.57   WIL-25  793.68
2447025.36  310363.235  790.24256   -0.58   WIL-25  793.68
2447025.36  310363.235  789.7932    -0.12   WIL-25  793.68
2447025.36  310363.235  789.41272   0   WIL-25  793.68
2447025.36  310363.235  788.96992   -0.67   WIL-25  793.68
2447025.36  310363.235  788.51072   -0.62   WIL-25  793.68
2447025.36  310363.235  788.0712    -0.55   WIL-25  793.68
2447025.36  310363.235  787.63496   -0.58   WIL-25  793.68
2447025.36  310363.235  787.18888   -0.24   WIL-25  793.68
2447025.36  310363.235  786.71328   -0.46   WIL-25  793.68
2447025.36  310363.235  786.45088   0.24    WIL-25  793.68
2447025.36  310363.235  785.95232   1.61    WIL-25  793.68
2447025.36  310363.235  785.52264   28.52   WIL-25  793.68
2447025.36  310363.235  785.06344   18.36   WIL-25  793.68
2447025.36  310363.235  784.6108    25.59   WIL-25  793.68
2447025.36  310363.235  784.19424   58.75   WIL-25  793.68
2447025.36  310363.235  783.76784   0.01    WIL-25  793.68
2447025.36  310363.235  783.56448   27.34   WIL-25  793.68
2447025.36  310363.235  783.3316    3.22    WIL-25  793.68
2447194.188 310331.792  794.861 -0.17   WIL-26  794.861
2447194.188 310331.792  794.42804   -1.04   WIL-26  794.861
2447194.188 310331.792  793.95244   -0.85   WIL-26  794.861
2447194.188 310331.792  793.49652   -0.73   WIL-26  794.861
2447194.188 310331.792  793.057 -0.91   WIL-26  794.861
2447194.188 310331.792  792.62404   -0.97   WIL-26  794.861
2447194.188 310331.792  792.1878    -0.97   WIL-26  794.861
2447194.188 310331.792  791.69908   -1  WIL-26  794.861
2447194.188 310331.792  791.4006    -0.97   WIL-26  794.861
2447273.739 310352.885  795.3   1.08    WIL-27  795.3
2447273.739 310352.885  795.27048   0.31    WIL-27  795.3
2447273.739 310352.885  795.17536   0.26    WIL-27  795.3
2447273.739 310352.885  794.89984   0.04    WIL-27  795.3
2447273.739 310352.885  794.46688   0.32    WIL-27  795.3
2447273.739 310352.885  793.96176   0.38    WIL-27  795.3
2447273.739 310352.885  793.52552   0.57    WIL-27  795.3
2447273.739 310352.885  793.414 0.82    WIL-27  795.3
2447273.739 310352.885  792.96136   0.25    WIL-27  795.3
2447273.739 310352.885  792.48248   0.35    WIL-27  795.3
2447273.739 310352.885  791.99048   0.14    WIL-27  795.3
2447273.739 310352.885  791.52472   0.08    WIL-27  795.3
2447273.739 310352.885  791.40008   0.03    WIL-27  795.3
2447273.739 310352.885  791.25248   0.02    WIL-27  795.3
2447273.739 310352.885  790.79  0.24    WIL-27  795.3
2447273.739 310352.885  790.57024   0.36    WIL-27  795.3
2447273.739 310352.885  790.09792   -0.01   WIL-27  795.3
```

```
2447273.739 310352.885  789.61248   -0.01   WIL-27  795.3
2447273.739 310352.885  789.17296   0.15    WIL-27  795.3
2447273.739 310352.885  789.04832   0.01    WIL-27  795.3
2447273.739 310352.885  788.7072    0.14    WIL-27  795.3
2447273.739 310352.885  788.6416    0.08    WIL-27  795.3
2447273.739 310352.885  788.5432    0   WIL-27  795.3
2447273.739 310352.885  788.49728   0.02    WIL-27  795.3
2447273.739 310352.885  788.01512   0.17    WIL-27  795.3
2447273.739 310352.885  787.55264   0.2 WIL-27  795.3
2447273.739 310352.885  787.12296   0.11    WIL-27  795.3
2447273.739 310352.885  786.62112   -0.07   WIL-27  795.3
2447273.739 310352.885  786.15536   -0.07   WIL-27  795.3
2447273.739 310352.885  785.62728   0.08    WIL-27  795.3
2447273.739 310352.885  785.46328   0   WIL-27  795.3
2447273.739 310352.885  785.38456   0.06    WIL-27  795.3
2447273.739 310352.885  785.3288    0.05    WIL-27  795.3
2447273.739 310352.885  785.2468    0.04    WIL-27  795.3
2447273.739 310352.885  785.12216   0   WIL-27  795.3
2447273.739 310352.885  785.00736   0.01    WIL-27  795.3
2447273.739 310352.885  784.57112   0.01    WIL-27  795.3
2447273.739 310352.885  784.07912   0.01    WIL-27  795.3
2447273.739 310352.885  783.5904    0.01    WIL-27  795.3
2447273.739 310352.885  783.47232   0.14    WIL-27  795.3
2447349.566 310368.679  796.291 2.24    WIL-28  796.291
2447349.566 310368.679  795.77604   0.63    WIL-28  796.291
2447349.566 310368.679  795.26436   0.48    WIL-28  796.291
2447349.566 310368.679  794.815 0.6 WIL-28  796.291
2447349.566 310368.679  794.37548   1.53    WIL-28  796.291
2447349.566 310368.679  793.9458    0.65    WIL-28  796.291
2447349.566 310368.679  793.51284   1.13    WIL-28  796.291
2447349.566 310368.679  793.09628   0.56    WIL-28  796.291
2447349.566 310368.679  792.64036   21.14   WIL-28  796.291
2447349.566 310368.679  792.21396   23.11   WIL-28  796.291
2447349.566 310368.679  791.75476   10.94   WIL-28  796.291
2447349.566 310368.679  791.26604   3.9 WIL-28  796.291
2447349.566 310368.679  790.7806    4.71    WIL-28  796.291
2447349.566 310368.679  790.29516   2.25    WIL-28  796.291
2447349.566 310368.679  789.83596   1.63    WIL-28  796.291
2447349.566 310368.679  789.38332   0.47    WIL-28  796.291
2447349.566 310368.679  788.94052   0.47    WIL-28  796.291
2447349.566 310368.679  788.45836   0.46    WIL-28  796.291
2447349.566 310368.679  787.9926    0.28    WIL-28  796.291
2447349.566 310368.679  787.4842    0.44    WIL-28  796.291
2447349.566 310368.679  787.03812   0.36    WIL-28  796.291
2447349.566 310368.679  786.55596   0.16    WIL-28  796.291
2447349.566 310368.679  786.08036   0.37    WIL-28  796.291
2447349.566 310368.679  785.86716   0.34    WIL-28  796.291
2447375.689 310409.04   794.521 1.16    WIL-29  794.521
2447375.689 310409.04   793.947 -0.06   WIL-29  794.521
2447375.689 310409.04   793.49764   0.34    WIL-29  794.521
2447375.689 310409.04   793.03844   0.17    WIL-29  794.521
2447375.689 310409.04   792.60548   2.21    WIL-29  794.521
2447375.689 310409.04   792.15612   3.14    WIL-29  794.521
2447375.689 310409.04   791.67068   6.27    WIL-29  794.521
2447375.689 310409.04   791.2246    3.89    WIL-29  794.521
2447375.689 310409.04   790.79164   6.47    WIL-29  794.521
2447375.689 310409.04   790.339 7.04    WIL-29  794.521
2447375.689 310409.04   789.87652   7.78    WIL-29  794.521
2447375.689 310409.04   789.437 29.58   WIL-29  794.521
2447375.689 310409.04   788.98108   24.31   WIL-29  794.521
2447375.689 310409.04   788.50548   32.67   WIL-29  794.521
2447375.689 310409.04   788.05612   25.28   WIL-29  794.521
2447375.689 310409.04   787.53788   18.14   WIL-29  794.521
2447375.689 310409.04   787.06556   17.7    WIL-29  794.521
```


014997

```
2447375.689 310409.04   786.59652   18.88   WIL-29  794.521
2447375.689 310409.04   786.14388   18.81   WIL-29  794.521
2447375.689 310409.04   785.68796   8.7 WIL-29  794.521
2447375.689 310409.04   785.24516   11.93   WIL-29  794.521
2447375.689 310409.04   784.75316   5.18    WIL-29  794.521
2447375.689 310409.04   784.29724   0.54    WIL-29  794.521
2447375.689 310409.04   783.82492   0.32    WIL-29  794.521
2447375.689 310409.04   783.31324   0.16    WIL-29  794.521
2447375.689 310409.04   782.88028   -0.59   WIL-29  794.521
2447375.689 310409.04   782.44404   -0.34   WIL-29  794.521
2447375.689 310409.04   782.44076   -0.42   WIL-29  794.521
2447418.825 310543.052  798.704 0.28    WIL-30  798.704
2447418.825 310543.052  798.2612    0.35    WIL-30  798.704
2447418.825 310543.052  797.80856   0.33    WIL-30  798.704
2447418.825 310543.052  797.37232   0.5 WIL-30  798.704
2447418.825 310543.052  796.90328   0.57    WIL-30  798.704
2447418.825 310543.052  796.4408    0.93    WIL-30  798.704
2447418.825 310543.052  796.00784   1.28    WIL-30  798.704
2447418.825 310543.052  795.56832   0.57    WIL-30  798.704
2447418.825 310543.052  795.38792   0.63    WIL-30  798.704
2447418.825 310543.052  794.90248   2.78    WIL-30  798.704
2447418.825 310543.052  794.43672   8.72    WIL-30  798.704
2447418.825 310543.052  793.97752   21.54   WIL-30  798.704
2447418.825 310543.052  793.53144   14.31   WIL-30  798.704
2447418.825 310543.052  793.0788    21.42   WIL-30  798.704
2447418.825 310543.052  792.70816   177.42  WIL-30  798.704
2447418.825 310543.052  792.25552   46.72   WIL-30  798.704
2447418.825 310543.052  792.22928   1.11    WIL-30  798.704
2447418.825 310543.052  792.1604    12.91   WIL-30  798.704
2447418.825 310543.052  791.70448   0.74    WIL-30  798.704
2447418.825 310543.052  791.19936   1.22    WIL-30  798.704
2447418.825 310543.052  790.75656   0.7 WIL-30  798.704
2447418.825 310543.052  790.31048   0.44    WIL-30  798.704
2447418.825 310543.052  789.85784   0.68    WIL-30  798.704
2447418.825 310543.052  789.4216    0.94    WIL-30  798.704
2447418.825 310543.052  788.97552   1.42    WIL-30  798.704
2447418.825 310543.052  788.536 0.82    WIL-30  798.704
2447418.825 310543.052  788.08336   0.89    WIL-30  798.704
2447418.825 310543.052  787.64056   1.04    WIL-30  798.704
2447418.825 310543.052  787.17152   0.9 WIL-30  798.704
2447418.825 310543.052  787.10592   0.33    WIL-30  798.704
2447282.462 310264.308  794.813 4.66    WIL-31  794.813
2447282.462 310264.308  794.31772   -0.8    WIL-31  794.813
2447282.462 310264.308  793.86836   -0.81   WIL-31  794.813
2447282.462 310264.308  793.28452   -1.05   WIL-31  794.813
2447282.462 310264.308  792.83844   -1.02   WIL-31  794.813
2447282.462 310264.308  792.4022    -0.85   WIL-31  794.813
2447282.462 310264.308  791.92332   -0.45   WIL-31  794.813
2447282.462 310264.308  791.4838    -0.36   WIL-31  794.813
2447282.462 310264.308  791.02132   -0.54   WIL-31  794.813
2447282.462 310264.308  790.56212   -0.17   WIL-31  794.813
2447282.462 310264.308  790.12916   -0.22   WIL-31  794.813
2447282.462 310264.308  789.6962    -0.25   WIL-31  794.813
2447282.462 310264.308  789.20748   -0.18   WIL-31  794.813
2447282.462 310264.308  788.76796   -0.48   WIL-31  794.813
2447282.462 310264.308  788.33172   -0.55   WIL-31  794.813
2447282.462 310264.308  787.83972   -0.59   WIL-31  794.813
2447282.462 310264.308  787.41004   -0.7    WIL-31  794.813
2447282.462 310264.308  786.96396   -0.86   WIL-31  794.813
2447282.462 310264.308  786.51788   -0.79   WIL-31  794.813
2447282.462 310264.308  786.0718    -0.65   WIL-31  794.813
2447282.462 310264.308  785.56012   -1.65   WIL-31  794.813
2447282.462 310264.308  785.07796   -0.61   WIL-31  794.813
2447282.462 310264.308  784.64828   -0.72   WIL-31  794.813
```


014998

```
2447282.462 310264.308  784.153 -0.89   WIL-31  794.813
2447282.462 310264.308  783.68724   -0.87   WIL-31  794.813
2447282.462 310264.308  783.18212   -0.53   WIL-31  794.813
2447282.462 310264.308  782.94924   -0.75   WIL-31  794.813
2447406.588 310372.163  793.234 2.19    WIL-32  793.234
2447406.588 310372.163  792.6928    0.89    WIL-32  793.234
2447406.588 310372.163  792.20408   1.22    WIL-32  793.234
2447406.588 310372.163  791.60712   1.13    WIL-32  793.234
2447406.588 310372.163  791.10856   1.03    WIL-32  793.234
2447406.588 310372.163  790.99704   0.63    WIL-32  793.234
2447406.588 310372.163  790.53456   3.37    WIL-32  793.234
2447406.588 310372.163  790.05568   35.69   WIL-32  793.234
2447406.588 310372.163  789.76048   104.85  WIL-32  793.234
2447406.588 310372.163  789.32096   48.55   WIL-32  793.234
2447406.588 310372.163  788.84208   26.91   WIL-32  793.234
2447406.588 310372.163  788.38616   49.1    WIL-32  793.234
2447406.588 310372.163  787.93352   34.22   WIL-32  793.234
2447406.588 310372.163  787.4612    30.99   WIL-32  793.234
2447406.588 310372.163  787.03152   34.02   WIL-32  793.234
2447406.588 310372.163  786.58872   37.97   WIL-32  793.234
2447406.588 310372.163  786.12624   30.07   WIL-32  793.234
2447406.588 310372.163  785.68344   24.63   WIL-32  793.234
2447406.588 310372.163  785.23736   25.9    WIL-32  793.234
2447406.588 310372.163  784.99464   28.9    WIL-32  793.234
2447443.715 310334.832  790.81  2.56    WIL-33  790.81
2447443.715 310334.832  790.23928   1.65    WIL-33  790.81
2447443.715 310334.832  789.75712   1.5 WIL-33  790.81
2447443.715 310334.832  789.29792   0.76    WIL-33  790.81
2447443.715 310334.832  788.81576   0.92    WIL-33  790.81
2447443.715 310334.832  788.37952   2.6 WIL-33  790.81
2447443.715 310334.832  787.94984   4.95    WIL-33  790.81
2447443.715 310334.832  787.49064   4.07    WIL-33  790.81
2447443.715 310334.832  787.04784   4.21    WIL-33  790.81
2447443.715 310334.832  786.61816   5.25    WIL-33  790.81
2447443.715 310334.832  786.17208   12.93   WIL-33  790.81
2447443.715 310334.832  785.68336   15.69   WIL-33  790.81
2447443.715 310334.832  785.22088   21.64   WIL-33  790.81
2447443.715 310334.832  784.78792   23.08   WIL-33  790.81
2447443.715 310334.832  784.35168   24.63   WIL-33  790.81
2447443.715 310334.832  783.91216   12.42   WIL-33  790.81
2447443.715 310334.832  783.40048   22.17   WIL-33  790.81
2447443.715 310334.832  782.94456   11.71   WIL-33  790.81
2447443.715 310334.832  782.45912   38.46   WIL-33  790.81
2447443.715 310334.832  781.98024   9.44    WIL-33  790.81
2447443.715 310334.832  781.51448   8.53    WIL-33  790.81
2447443.715 310334.832  781.0684    35.92   WIL-33  790.81
2447443.715 310334.832  780.63872   24.02   WIL-33  790.81
2447443.715 310334.832  780.19592   19.83   WIL-33  790.81
2447443.715 310334.832  779.7564    9.84    WIL-33  790.81
2447443.715 310334.832  779.31032   36.91   WIL-33  790.81
2447443.715 310334.832  778.8216    28.12   WIL-33  790.81
2447443.715 310334.832  778.55592   44.37   WIL-33  790.81
2447443.715 310334.832  778.0836    12.77   WIL-33  790.81
2447443.715 310334.832  777.60144   16.12   WIL-33  790.81
2447443.715 310334.832  777.1324    2.88    WIL-33  790.81
2447443.715 310334.832  776.80768   0.7 WIL-33  790.81
2447443.715 310334.832  776.33536   2.81    WIL-33  790.81
2447443.715 310334.832  775.84336   0.58    WIL-33  790.81
2447443.715 310334.832  775.38088   1.77    WIL-33  790.81
2447443.715 310334.832  774.93152   2.77    WIL-33  790.81
2447443.715 310334.832  774.50184   0.69    WIL-33  790.81
2447443.715 310334.832  774.03936   2.84    WIL-33  790.81
2447443.715 310334.832  773.59328   4.13    WIL-33  790.81
2447443.715 310334.832  773.08488   1.14    WIL-33  790.81
```


014999

```
2447443.715 310334.832  772.58304   4.1 WIL-33  790.81
2447443.715 310334.832  772.10088   5.04    WIL-33  790.81
2447443.715 310334.832  771.66136   1.61    WIL-33  790.81
2447443.715 310334.832  771.28416   5.15    WIL-33  790.81
2447443.715 310334.832  770.76264   0.29    WIL-33  790.81
2447443.715 310334.832  770.2772    0.12    WIL-33  790.81
2447443.715 310334.832  770.1952    0.04    WIL-33  790.81
2447443.715 310334.832  769.87704   0.88    WIL-33  790.81
2447443.715 310334.832  769.44408   0.25    WIL-33  790.81
2447443.715 310334.832  769.26368   0.13    WIL-33  790.81
2447453.392 310290.666  789.677 5.46    WIL-34  789.677
2447453.392 310290.666  789.185 0.77    WIL-34  789.677
2447453.392 310290.666  788.69956   1.34    WIL-34  789.677
2447453.392 310290.666  788.4634    0.19    WIL-34  789.677
2447453.392 310290.666  788.26004   3.94    WIL-34  789.677
2447453.392 310290.666  787.81396   3.31    WIL-34  789.677
2447453.392 310290.666  787.32852   2.82    WIL-34  789.677
2447453.392 310290.666  786.8562    3.03    WIL-34  789.677
2447453.392 310290.666  786.66596   4.35    WIL-34  789.677
2447453.392 310290.666  786.22316   2.69    WIL-34  789.677
2447453.392 310290.666  785.75412   1.32    WIL-34  789.677
2447453.392 310290.666  785.24572   1.25    WIL-34  789.677
2447453.392 310290.666  784.73732   3.59    WIL-34  789.677
2447453.392 310290.666  784.27812   0.85    WIL-34  789.677
2447453.392 310290.666  783.78284   2.54    WIL-34  789.677
2447453.392 310290.666  783.3466    1.07    WIL-34  789.677
2447453.392 310290.666  782.87428   2.19    WIL-34  789.677
2447453.392 310290.666  782.38228   1.13    WIL-34  789.677
2447453.392 310290.666  782.29044   0.13    WIL-34  789.677
2447453.392 310290.666  782.07396   1.96    WIL-34  789.677
2447453.392 310290.666  781.6082    1.3 WIL-34  789.677
2447453.392 310290.666  781.15884   1.44    WIL-34  789.677
2447453.392 310290.666  780.69964   3.41    WIL-34  789.677
2447453.392 310290.666  780.25356   4.61    WIL-34  789.677
2447453.392 310290.666  779.77468   3.52    WIL-34  789.677
2447453.392 310290.666  779.33844   2.27    WIL-34  789.677
2447453.392 310290.666  778.82676   4.48    WIL-34  789.677
2447453.392 310290.666  778.3938    6.4 WIL-34  789.677
2447453.392 310290.666  777.92476   19.95   WIL-34  789.677
2447453.392 310290.666  777.41308   25.34   WIL-34  789.677
2447453.392 310290.666  776.967 20.3    WIL-34  789.677
2447453.392 310290.666  776.48484   19.41   WIL-34  789.677
2447453.392 310290.666  776.00268   14.44   WIL-34  789.677
2447453.392 310290.666  775.5238    22.46   WIL-34  789.677
2447453.392 310290.666  774.97604   22.06   WIL-34  789.677
2447453.392 310290.666  774.46436   17.56   WIL-34  789.677
2447453.392 310290.666  774.24132   58.08   WIL-34  789.677
2447453.392 310290.666  773.8018    13.85   WIL-34  789.677
2447453.392 310290.666  773.29996   25.89   WIL-34  789.677
2447453.392 310290.666  772.84404   9.99    WIL-34  789.677
2447453.392 310290.666  772.38812   15.32   WIL-34  789.677
2447453.392 310290.666  771.91252   19.07   WIL-34  789.677
2447453.392 310290.666  771.3746    0.88    WIL-34  789.677
2447453.392 310290.666  771.05972   0.09    WIL-34  789.677
2447453.392 310290.666  770.74156   1.24    WIL-34  789.677
2447453.392 310290.666  770.27908   1.09    WIL-34  789.677
2447453.392 310290.666  769.80676   0.8 WIL-34  789.677
2447453.392 310290.666  769.57388   0.06    WIL-34  789.677
2447453.392 310290.666  769.10812   0.19    WIL-34  789.677
2447453.392 310290.666  768.62924   0.23    WIL-34  789.677
2447453.392 310290.666  768.1274    0.15    WIL-34  789.677
2447453.392 310290.666  768.05524   1.15    WIL-34  789.677
2447453.392 310290.666  767.85844   0.03    WIL-34  789.677
2447453.392 310290.666  767.66492   0.75    WIL-34  789.677
```

```
2447453.392 310290.666  767.44188   0.05    WIL-34  789.677
2447453.392 310290.666  766.97612   0.46    WIL-34  789.677
2447453.392 310290.666  766.49724   0.28    WIL-34  789.677
2447453.392 310290.666  766.03148   -0.17   WIL-34  789.677
2447453.392 310290.666  765.85108   0.67    WIL-34  789.677
2447513.562 310278.396  793.355 1.71    WIL-35  793.355
2447513.562 310278.396  792.90564   -0.35   WIL-35  793.355
2447513.562 310278.396  792.39396   -0.6    WIL-35  793.355
2447513.562 310278.396  791.9446    0.03    WIL-35  793.355
2447513.562 310278.396  791.32796   -0.53   WIL-35  793.355
2447513.562 310278.396  790.85892   0   WIL-35  793.355
2447513.562 310278.396  790.35052   -0.06   WIL-35  793.355
2447513.562 310278.396  789.91428   -0.8    WIL-35  793.355
2447513.562 310278.396  789.44524   -0.43   WIL-35  793.355
2447513.562 310278.396  788.92372   -0.19   WIL-35  793.355
2447513.562 310278.396  788.47436   -0.23   WIL-35  793.355
2447513.562 310278.396  787.99876   0.26    WIL-35  793.355
2447513.562 310278.396  787.53956   1.61    WIL-35  793.355
2447513.562 310278.396  787.10004   14.83   WIL-35  793.355
2447513.562 310278.396  786.60804   9.47    WIL-35  793.355
2447513.562 310278.396  786.16524   11.01   WIL-35  793.355
2447513.562 310278.396  785.73556   9.26    WIL-35  793.355
2447513.562 310278.396  785.19436   8.29    WIL-35  793.355
2447513.562 310278.396  784.74172   27.25   WIL-35  793.355
2447513.562 310278.396  784.22676   16.62   WIL-35  793.355
2447513.562 310278.396  783.73804   14.12   WIL-35  793.355
2447513.562 310278.396  783.24604   12.54   WIL-35  793.355
2447513.562 310278.396  782.74748   7.94    WIL-35  793.355
2447513.562 310278.396  782.31452   10.75   WIL-35  793.355
2447513.562 310278.396  781.88484   10.11   WIL-35  793.355
2447513.562 310278.396  781.45516   14.02   WIL-35  793.355
2447513.562 310278.396  781.01236   12.2    WIL-35  793.355
2447513.562 310278.396  780.563 9.92    WIL-35  793.355
2447513.562 310278.396  780.02508   9.33    WIL-35  793.355
2447513.562 310278.396  779.48716   6.77    WIL-35  793.355
2447513.562 310278.396  778.95252   1.16    WIL-35  793.355
2447513.562 310278.396  778.50972   -0.33   WIL-35  793.355
2447513.562 310278.396  778.0702    -0.71   WIL-35  793.355
2447513.562 310278.396  778.06692   -0.63   WIL-35  793.355
2447481.707 310369.504  791.157 0.53    WIL-36  791.157
2447481.707 310369.504  790.63876   0.54    WIL-36  791.157
2447481.707 310369.504  790.0746    0.56    WIL-36  791.157
2447481.707 310369.504  789.46124   0.77    WIL-36  791.157
2447481.707 310369.504  789.02172   0.77    WIL-36  791.157
2447481.707 310369.504  788.56908   0.63    WIL-36  791.157
2447481.707 310369.504  788.12956   1.05    WIL-36  791.157
2447481.707 310369.504  787.69332   1.07    WIL-36  791.157
2447481.707 310369.504  787.23084   0.75    WIL-36  791.157
2447481.707 310369.504  786.77492   1.11    WIL-36  791.157
2447481.707 310369.504  786.30916   1.1 WIL-36  791.157
2447481.707 310369.504  785.8434    2.89    WIL-36  791.157
2447481.707 310369.504  785.39404   3.45    WIL-36  791.157
2447481.707 310369.504  784.92172   2.01    WIL-36  791.157
2447481.707 310369.504  784.39364   1.84    WIL-36  791.157
2447481.707 310369.504  783.90492   2.45    WIL-36  791.157
2447481.707 310369.504  783.45556   0.96    WIL-36  791.157
2447481.707 310369.504  783.02588   1.01    WIL-36  791.157
2447481.707 310369.504  782.58636   2.26    WIL-36  791.157
2447481.707 310369.504  782.08124   0.85    WIL-36  791.157
2447481.707 310369.504  781.57284   3.35    WIL-36  791.157
2447481.707 310369.504  781.08412   2.19    WIL-36  791.157
2447481.707 310369.504  780.59212   1.85    WIL-36  791.157
2447481.707 310369.504  780.14604   1.88    WIL-36  791.157
2447481.707 310369.504  779.65732   4.51    WIL-36  791.157
```

```
2447481.707 310369.504  779.2014    9.62    WIL-36  791.157
2447481.707 310369.504  778.72252   5.56    WIL-36  791.157
2447481.707 310369.504  778.2502    14.81   WIL-36  791.157
2447481.707 310369.504  777.78772   9.31    WIL-36  791.157
2447481.707 310369.504  777.35804   4.64    WIL-36  791.157
2447481.707 310369.504  776.87916   8.51    WIL-36  791.157
2447481.707 310369.504  776.4134    10.68   WIL-36  791.157
2447481.707 310369.504  775.97388   3.94    WIL-36  791.157
2447481.707 310369.504  775.53108   10.76   WIL-36  791.157
2447481.707 310369.504  775.04564   6.72    WIL-36  791.157
2447481.707 310369.504  774.66516   25.47   WIL-36  791.157
2447481.707 310369.504  774.22236   12.34   WIL-36  791.157
2447481.707 310369.504  773.7402    10.51   WIL-36  791.157
2447481.707 310369.504  773.2646    1.27    WIL-36  791.157
2447481.707 310369.504  772.84804   0.69    WIL-36  791.157
2447481.707 310369.504  772.3954    1.08    WIL-36  791.157
2447481.707 310369.504  771.9034    0.88    WIL-36  791.157
2447481.707 310369.504  771.45404   0.67    WIL-36  791.157
2447481.707 310369.504  770.9358    1.34    WIL-36  791.157
2447481.707 310369.504  770.41756   1.18    WIL-36  791.157
2447481.707 310369.504  769.93868   0.66    WIL-36  791.157
2447481.707 310369.504  769.42372   0.97    WIL-36  791.157
2447481.707 310369.504  768.94484   0.81    WIL-36  791.157
2447481.707 310369.504  768.45612   1.28    WIL-36  791.157
2447481.707 310369.504  767.97068   0.75    WIL-36  791.157
2447481.707 310369.504  767.49508   1.47    WIL-36  791.157
2447481.707 310369.504  767.10804   3.01    WIL-36  791.157
2447584.429 310415.275  789.472 2.06    WIL-37  789.472
2447584.429 310415.275  789.20632   0.04    WIL-37  789.472
2447584.429 310415.275  788.69464   0.24    WIL-37  789.472
2447584.429 310415.275  787.90744   -0.12   WIL-37  789.472
2447584.429 310415.275  787.78608   0.69    WIL-37  789.472
2447584.429 310415.275  787.32032   0.1 WIL-37  789.472
2447584.429 310415.275  786.86112   -0.03   WIL-37  789.472
2447584.429 310415.275  786.83816   0.01    WIL-37  789.472
2447584.429 310415.275  786.79224   0.36    WIL-37  789.472
2447584.429 310415.275  786.29368   -0.04   WIL-37  789.472
2447584.429 310415.275  785.80824   -0.04   WIL-37  789.472
2447584.429 310415.275  785.50648   0.01    WIL-37  789.472
2447584.429 310415.275  785.3228    0.24    WIL-37  789.472
2447584.429 310415.275  785.17192   0.01    WIL-37  789.472
2447584.429 310415.275  784.67336   -0.2    WIL-37  789.472
2447584.429 310415.275  784.18136   -0.44   WIL-37  789.472
2447584.429 310415.275  783.71232   -0.28   WIL-37  789.472
2447584.429 310415.275  783.24656   -0.59   WIL-37  789.472
2447584.429 310415.275  782.72176   -0.33   WIL-37  789.472
2447584.429 310415.275  782.23632   -0.54   WIL-37  789.472
2447584.429 310415.275  781.76072   -0.38   WIL-37  789.472
2447584.429 310415.275  781.31136   -0.59   WIL-37  789.472
2447584.429 310415.275  780.85872   -0.5    WIL-37  789.472
2447584.429 310415.275  780.41592   -0.45   WIL-37  789.472
2447584.429 310415.275  779.9436    -0.66   WIL-37  789.472
2447584.429 310415.275  779.46472   -0.67   WIL-37  789.472
2447584.429 310415.275  778.97272   -0.79   WIL-37  789.472
2447584.429 310415.275  778.50696   -0.2    WIL-37  789.472
2447584.429 310415.275  778.4348    2.16    WIL-37  789.472
2447584.429 310415.275  777.98216   0.01    WIL-37  789.472
2447584.429 310415.275  777.51968   -0.43   WIL-37  789.472
2447584.429 310415.275  777.08344   3.96    WIL-37  789.472
2447584.429 310415.275  776.96864   22  WIL-37  789.472
2447584.429 310415.275  776.7128    0.73    WIL-37  789.472
2447584.429 310415.275  776.26016   8.34    WIL-37  789.472
2447584.429 310415.275  775.94528   30.94   WIL-37  789.472
2447584.429 310415.275  775.46312   5.99    WIL-37  789.472
```

```
2447584.429 310415.275  775.01704   4.44    WIL-37  789.472
2447584.429 310415.275  774.96128   6.95    WIL-37  789.472
2447584.429 310415.275  774.52832   0.82    WIL-37  789.472
2447584.429 310415.275  774.27248   0.07    WIL-37  789.472
2447584.429 310415.275  773.8428    21.09   WIL-37  789.472
2447584.429 310415.275  773.4328    0.54    WIL-37  789.472
2447584.429 310415.275  772.98016   -0.69   WIL-37  789.472
2447584.429 310415.275  772.48816   2.23    WIL-37  789.472
2447584.429 310415.275  771.99616   6.87    WIL-37  789.472
2447584.429 310415.275  771.65504   27.3    WIL-37  789.472
2447584.429 310415.275  771.17944   22.24   WIL-37  789.472
2447584.429 310415.275  770.7104    21.71   WIL-37  789.472
2447584.429 310415.275  770.2348    21.7    WIL-37  789.472
2447584.429 310415.275  769.76576   16.63   WIL-37  789.472
2447584.429 310415.275  769.31312   10.37   WIL-37  789.472
2447584.429 310415.275  768.972 7.16    WIL-37  789.472
2447482.268 310434.131  791.158 0.96    WIL-38  791.158
2447482.268 310434.131  790.66272   -0.83   WIL-38  791.158
2447482.268 310434.131  790.16088   -0.87   WIL-38  791.158
2447482.268 310434.131  789.69512   -0.81   WIL-38  791.158
2447482.268 310434.131  789.21952   -0.56   WIL-38  791.158
2447482.268 310434.131  788.78656   -0.44   WIL-38  791.158
2447482.268 310434.131  788.31096   -0.75   WIL-38  791.158
2447482.268 310434.131  787.87472   -0.59   WIL-38  791.158
2447482.268 310434.131  787.42536   -0.89   WIL-38  791.158
2447482.268 310434.131  786.98256   -0.78   WIL-38  791.158
2447482.268 310434.131  786.51352   -0.84   WIL-38  791.158
2447482.268 310434.131  786.0576    -0.04   WIL-38  791.158
2447482.268 310434.131  785.64432   0.03    WIL-38  791.158
2447482.268 310434.131  785.56888   0.6 WIL-38  791.158
2447482.268 310434.131  785.10968   0.03    WIL-38  791.158
2447482.268 310434.131  784.65704   1.77    WIL-38  791.158
2447482.268 310434.131  784.5324    0.05    WIL-38  791.158
2447482.268 310434.131  784.0896    0.76    WIL-38  791.158
2447482.268 310434.131  783.90264   7.53    WIL-38  791.158
2447482.268 310434.131  783.41064   10.99   WIL-38  791.158
2447482.268 310434.131  782.89568   5.21    WIL-38  791.158
2447482.268 310434.131  782.4168    13.29   WIL-38  791.158
2447482.268 310434.131  781.88544   14  WIL-38  791.158
2447482.268 310434.131  781.6132    41.36   WIL-38  791.158
2447482.268 310434.131  781.1048    2.59    WIL-38  791.158
2447482.268 310434.131  780.82272   0.1 WIL-38  791.158
2447482.268 310434.131  780.3832    3.19    WIL-38  791.158
2447482.268 310434.131  780.33728   4.1 WIL-38  791.158
2447482.268 310434.131  779.8912    1.58    WIL-38  791.158
2447482.268 310434.131  779.43528   1.36    WIL-38  791.158
2447482.268 310434.131  779.17616   0.05    WIL-38  791.158
2447482.268 310434.131  778.91376   4.86    WIL-38  791.158
2447482.268 310434.131  778.43488   0.82    WIL-38  791.158
2447482.268 310434.131  777.98224   0.73    WIL-38  791.158
2447482.268 310434.131  777.58536   0.76    WIL-38  791.158
2447482.268 310434.131  777.25736   27.24   WIL-38  791.158
2447482.268 310434.131  777.22128   9.52    WIL-38  791.158
2447482.268 310434.131  777.15568   1.61    WIL-38  791.158
2447482.268 310434.131  777.0868    0.27    WIL-38  791.158
2447482.268 310434.131  776.972 0   WIL-38  791.158
2447482.268 310434.131  776.78504   0.47    WIL-38  791.158
2447444.964 310482.483  793.336 1.52    WIL-39  793.336
2447444.964 310482.483  792.3848    0.04    WIL-39  793.336
2447444.964 310482.483  791.86656   0.02    WIL-39  793.336
2447444.964 310482.483  791.3024    0.44    WIL-39  793.336
2447444.964 310482.483  790.83992   -0.28   WIL-39  793.336
2447444.964 310482.483  790.39712   -0.58   WIL-39  793.336
2447444.964 310482.483  789.88544   -0.4    WIL-39  793.336
```

```
2447444.964 310482.483  789.43608   -0.4    WIL-39  793.336
2447444.964 310482.483  788.9408    -0.49   WIL-39  793.336
2447444.964 310482.483  788.49144   -0.51   WIL-39  793.336
2447444.964 310482.483  788.01256   -1.3    WIL-39  793.336
2447444.964 310482.483  787.54024   -0.82   WIL-39  793.336
2447444.964 310482.483  787.05808   -0.7    WIL-39  793.336
2447444.964 310482.483  786.612 -0.74   WIL-39  793.336
2447444.964 310482.483  786.09048   -0.27   WIL-39  793.336
2447444.964 310482.483  785.65752   -0.89   WIL-39  793.336
2447444.964 310482.483  785.14584   -0.78   WIL-39  793.336
2447444.964 310482.483  784.68336   -0.72   WIL-39  793.336
2447444.964 310482.483  784.21432   -0.82   WIL-39  793.336
2447444.964 310482.483  783.75512   -0.72   WIL-39  793.336
2447444.964 310482.483  783.26968   -0.75   WIL-39  793.336
2447444.964 310482.483  782.80392   -0.76   WIL-39  793.336
2447444.964 310482.483  782.36768   -1.03   WIL-39  793.336
2447444.964 310482.483  781.87568   -0.7    WIL-39  793.336
2447444.964 310482.483  781.34432   -0.66   WIL-39  793.336
2447444.964 310482.483  780.89824   -0.58   WIL-39  793.336
2447444.964 310482.483  780.4292    -0.7    WIL-39  793.336
2447444.964 310482.483  779.89456   -0.85   WIL-39  793.336
2447444.964 310482.483  779.45832   -0.76   WIL-39  793.336
2447444.964 310482.483  779.01224   -0.98   WIL-39  793.336
2447444.964 310482.483  778.53664   -0.71   WIL-39  793.336
2447444.964 310482.483  778.06104   -0.9    WIL-39  793.336
2447444.964 310482.483  777.55592   -0.65   WIL-39  793.336
2447444.964 310482.483  777.53296   -0.62   WIL-39  793.336
2447589.432 310527.067  792.305 4.32    WIL-40  792.305
2447589.432 310527.067  791.66868   0.3 WIL-40  792.305
2447589.432 310527.067  791.2062    0.51    WIL-40  792.305
2447589.432 310527.067  791.1406    0.14    WIL-40  792.305
2447589.432 310527.067  790.62564   0.3 WIL-40  792.305
2447589.432 310527.067  790.12052   3.74    WIL-40  792.305
2447589.432 310527.067  789.88108   24.8    WIL-40  792.305
2447589.432 310527.067  789.4186    29.63   WIL-40  792.305
2447589.432 310527.067  788.91348   19.49   WIL-40  792.305
2447589.432 310527.067  788.48052   14.76   WIL-40  792.305
2447589.432 310527.067  788.01476   24.03   WIL-40  792.305
2447589.432 310527.067  787.5162    17.11   WIL-40  792.305
2447589.432 310527.067  787.08324   8.15    WIL-40  792.305
2447589.432 310527.067  786.64372   11.84   WIL-40  792.305
2447589.432 310527.067  786.18452   10.33   WIL-40  792.305
2447589.432 310527.067  785.75484   10.26   WIL-40  792.305
2447589.432 310527.067  785.29564   8.23    WIL-40  792.305
2447589.432 310527.067  784.83644   10.37   WIL-40  792.305
2447589.432 310527.067  784.37724   5.36    WIL-40  792.305
2447589.432 310527.067  784.15748   1.41    WIL-40  792.305
2447589.432 310527.067  783.68844   16.27   WIL-40  792.305
2447589.432 310527.067  783.24236   11.83   WIL-40  792.305
2447589.432 310527.067  782.77988   43.45   WIL-40  792.305
2447589.432 310527.067  782.26492   21.15   WIL-40  792.305
2447589.432 310527.067  781.79916   8.05    WIL-40  792.305
2447589.432 310527.067  781.32356   5.6 WIL-40  792.305
2447589.432 310527.067  780.86108   1.4 WIL-40  792.305
2447589.432 310527.067  780.72004   0.28    WIL-40  792.305
2447589.432 310527.067  780.24772   0.65    WIL-40  792.305
2447589.432 310527.067  779.98532   2.67    WIL-40  792.305
2447589.432 310527.067  779.4966    0.03    WIL-40  792.305
2447589.432 310527.067  779.103 2.34    WIL-40  792.305
2447589.432 310527.067  778.63396   0.47    WIL-40  792.305
2447589.432 310527.067  778.18788   0.57    WIL-40  792.305
2447589.432 310527.067  777.74836   0.45    WIL-40  792.305
2447589.432 310527.067  777.58108   0.16    WIL-40  792.305
2447589.432 310527.067  777.08908   3.04    WIL-40  792.305
```

```
2447589.432 310527.067  776.64628   10.28   WIL-40  792.305
2447589.432 310527.067  776.2002    33.19   WIL-40  792.305
2447589.432 310527.067  775.76068   12.53   WIL-40  792.305
2447589.432 310527.067  775.32116   28.57   WIL-40  792.305
2447589.432 310527.067  774.89148   16.38   WIL-40  792.305
2447589.432 310527.067  774.45196   3.98    WIL-40  792.305
2447589.432 310527.067  774.34044   0.16    WIL-40  792.305
2447589.432 310527.067  773.91076   2.41    WIL-40  792.305
2447589.432 310527.067  773.4614    0.23    WIL-40  792.305
2447589.432 310527.067  773.02188   24.86   WIL-40  792.305
2447589.432 310527.067  772.87428   35.17   WIL-40  792.305
2447589.432 310527.067  772.40524   21.42   WIL-40  792.305
2447589.432 310527.067  771.97556   17.58   WIL-40  792.305
2447589.432 310527.067  771.52292   3.7 WIL-40  792.305
2447589.432 310527.067  771.48028   1   WIL-40  792.305
2447589.432 310527.067  771.17524   23.82   WIL-40  792.305
2447589.432 310527.067  770.70292   4.69    WIL-40  792.305
2447589.432 310527.067  770.54876   0.22    WIL-40  792.305
2447589.432 310527.067  770.09284   10.83   WIL-40  792.305
2447589.432 310527.067  769.837 49.11   WIL-40  792.305
2447589.432 310527.067  769.33516   11.41   WIL-40  792.305
2447589.432 310527.067  768.87924   22.85   WIL-40  792.305
2447589.432 310527.067  768.39708   34.4    WIL-40  792.305
2447589.432 310527.067  767.94772   10.77   WIL-40  792.305
2447589.432 310527.067  767.9182    8.66    WIL-40  792.305
2447638.611 310510.047  792.258 1.86    WIL-41  792.258
2447638.611 310510.047  791.72664   -0.21   WIL-41  792.258
2447638.611 310510.047  791.01816   -0.39   WIL-41  792.258
2447638.611 310510.047  790.52616   -0.39   WIL-41  792.258
2447638.611 310510.047  790.08336   -0.45   WIL-41  792.258
2447638.611 310510.047  789.62744   -0.25   WIL-41  792.258
2447638.611 310510.047  789.14856   -0.19   WIL-41  792.258
2447638.611 310510.047  788.66312   -0.35   WIL-41  792.258
2447638.611 310510.047  788.21376   -0.36   WIL-41  792.258
2447638.611 310510.047  787.71848   0.76    WIL-41  792.258
2447638.611 310510.047  787.27896   3.61    WIL-41  792.258
2447638.611 310510.047  786.82304   9.82    WIL-41  792.258
2447638.611 310510.047  786.36056   15.97   WIL-41  792.258
2447638.611 310510.047  785.93088   8.34    WIL-41  792.258
2447638.611 310510.047  785.49136   47.2    WIL-41  792.258
2447638.611 310510.047  785.05184   26.08   WIL-41  792.258
2447638.611 310510.047  784.57952   73.11   WIL-41  792.258
2447638.611 310510.047  784.39256   77  WIL-41  792.258
2447638.611 310510.047  783.95304   66.73   WIL-41  792.258
2447638.611 310510.047  783.46432   42.06   WIL-41  792.258
2447638.611 310510.047  783.00512   33.95   WIL-41  792.258
2447638.611 310510.047  782.52624   47.33   WIL-41  792.258
2447638.611 310510.047  782.06048   10.63   WIL-41  792.258
2447638.611 310510.047  781.60456   8.16    WIL-41  792.258
2447638.611 310510.047  781.15848   7.43    WIL-41  792.258
2447638.611 310510.047  780.72224   30.99   WIL-41  792.258
2447638.611 310510.047  780.25976   8.84    WIL-41  792.258
2447638.611 310510.047  779.794 20.74   WIL-41  792.258
2447638.611 310510.047  779.34136   12.84   WIL-41  792.258
2447638.611 310510.047  779.19048   6.55    WIL-41  792.258
2447352.964 310507.65   795.364 4.54    WIL-43  795.364
2447352.964 310507.65   794.85232   -0.49   WIL-43  795.364
2447352.964 310507.65   794.0684    -1.43   WIL-43  795.364
2447352.964 310507.65   793.61576   0.8 WIL-43  795.364
2447352.964 310507.65   793.0844    -0.55   WIL-43  795.364
2447352.964 310507.65   792.65144   -1.76   WIL-43  795.364
2447352.964 310507.65   792.1824    -2.42   WIL-43  795.364
2447352.964 310507.65   791.71008   -2.88   WIL-43  795.364
2447352.964 310507.65   791.25416   -2.23   WIL-43  795.364
```

```
2447352.964 310507.65   790.7884    -2.25   WIL-43  795.364
2447352.964 310507.65   790.3292    -2.3    WIL-43  795.364
2447352.964 310507.65   789.8864    -1.01   WIL-43  795.364
2447352.964 310507.65   789.40752   1.06    WIL-43  795.364
2447352.964 310507.65   788.93192   0.12    WIL-43  795.364
2447352.964 310507.65   788.48584   0.8 WIL-43  795.364
2447352.964 310507.65   787.98728   -0.82   WIL-43  795.364
2447352.964 310507.65   787.55432   1.49    WIL-43  795.364
2447352.964 310507.65   787.08856   1.45    WIL-43  795.364
2447352.964 310507.65   786.6392    -1.39   WIL-43  795.364
2447352.964 310507.65   786.19968   -0.62   WIL-43  795.364
2447352.964 310507.65   785.73392   -1.29   WIL-43  795.364
2447352.964 310507.65   785.30424   -1.43   WIL-43  795.364
2447352.964 310507.65   784.87456   -2.82   WIL-43  795.364
2447352.964 310507.65   784.4088    -3.11   WIL-43  795.364
2447352.964 310507.65   783.93648   -2.3    WIL-43  795.364
2447352.964 310507.65   783.47728   -3.17   WIL-43  795.364
2447352.964 310507.65   783.02792   -2.38   WIL-43  795.364
2447352.964 310507.65   782.57528   -3.08   WIL-43  795.364
2447352.964 310507.65   782.0964    -1.65   WIL-43  795.364
2447352.964 310507.65   781.64376   -1.67   WIL-43  795.364
2447352.964 310507.65   781.17144   -2.29   WIL-43  795.364
2447352.964 310507.65   780.72536   -2.8    WIL-43  795.364
2447352.964 310507.65   780.51216   -2.76   WIL-43  795.364
2447303.637 310545.738  799.595 4.01    WIL-44  799.595
2447303.637 310545.738  799.01772   -0.16   WIL-44  799.595
2447303.637 310545.738  798.45356   -0.13   WIL-44  799.595
2447303.637 310545.738  797.94844   0.19    WIL-44  799.595
2447303.637 310545.738  797.4138    0.22    WIL-44  799.595
2447303.637 310545.738  796.96116   -0.33   WIL-44  799.595
2447303.637 310545.738  796.6266    -0.14   WIL-44  799.595
2447446.082 310618.401  798.744 0.38    WIL-45  798.744
2447446.082 310618.401  798.04536   -1.17   WIL-45  798.744
2447446.082 310618.401  797.60256   -1.24   WIL-45  798.744
2447446.082 310618.401  797.06792   -1.6    WIL-45  798.744
2447446.082 310618.401  796.61856   -1.67   WIL-45  798.744
2447446.082 310618.401  796.17904   -1.34   WIL-45  798.744
2447446.082 310618.401  795.69032   -1.23   WIL-45  798.744
2447446.082 310618.401  795.22784   -0.72   WIL-45  798.744
2447446.082 310618.401  794.76536   -0.67   WIL-45  798.744
2447446.082 310618.401  794.31928   -0.97   WIL-45  798.744
2447446.082 310618.401  793.88304   -0.84   WIL-45  798.744
2447446.082 310618.401  793.414 -0.78   WIL-45  798.744
2447446.082 310618.401  793.25328   0.72    WIL-45  798.744
2447446.082 310618.401  792.86296   25.2    WIL-45  798.744
2447446.082 310618.401  792.39064   7.63    WIL-45  798.744
2447446.082 310618.401  791.938 1.04    WIL-45  798.744
2447446.082 310618.401  791.4952    1.62    WIL-45  798.744
2447446.082 310618.401  791.42632   0.14    WIL-45  798.744
2447446.082 310618.401  791.06552   11.25   WIL-45  798.744
2447446.082 310618.401  790.63584   6.02    WIL-45  798.744
2447446.082 310618.401  790.18976   7.79    WIL-45  798.744
2447446.082 310618.401  789.74368   11.68   WIL-45  798.744
2447446.082 310618.401  789.49768   0.73    WIL-45  798.744
2447446.082 310618.401  789.06144   23.43   WIL-45  798.744
2447446.082 310618.401  788.6416    70.49   WIL-45  798.744
2447446.082 310618.401  788.17584   0.19    WIL-45  798.744
2447446.082 310618.401  788.1332    0.14    WIL-45  798.744
2447446.082 310618.401  787.70352   2.39    WIL-45  798.744
2447446.082 310618.401  787.6248    5.17    WIL-45  798.744
2447495.239 310597.871  797.262 1.93    WIL-46  797.262
2447495.239 310597.871  796.69784   1.93    WIL-46  797.262
2447495.239 310597.871  796.05496   1.27    WIL-46  797.262
2447495.239 310597.871  795.42848   1.98    WIL-46  797.262
```

```
2447495.239 310597.871  794.88728   1.84    WIL-46  797.262
2447495.239 310597.871  794.37232   1.89    WIL-46  797.262
2447495.239 310597.871  793.90656   1.71    WIL-46  797.262
2447495.239 310597.871  793.46704   2.09    WIL-46  797.262
2447495.239 310597.871  792.98816   2   WIL-46  797.262
2447495.239 310597.871  792.5388    2.33    WIL-46  797.262
2447495.239 310597.871  792.0632    1.4 WIL-46  797.262
2447495.239 310597.871  791.54824   3.79    WIL-46  797.262
2447495.239 310597.871  791.02344   14.13   WIL-46  797.262
2447495.239 310597.871  790.48224   31.85   WIL-46  797.262
2447495.239 310597.871  789.94432   20.27   WIL-46  797.262
2447495.239 310597.871  789.49824   6.16    WIL-46  797.262
2447495.239 310597.871  789.00296   4.73    WIL-46  797.262
2447495.239 310597.871  788.51424   -0.02   WIL-46  797.262
2447495.239 310597.871  788.28136   -0.3    WIL-46  797.262
2447543.734 310599.238  797.04  -1.08   WIL-47  797.04
2447543.734 310599.238  796.55456   -2.05   WIL-47  797.04
2447543.734 310599.238  796.1052    -1.82   WIL-47  797.04
2447543.734 310599.238  795.67224   -1.91   WIL-47  797.04
2447543.734 310599.238  795.2032    -1.97   WIL-47  797.04
2447543.734 310599.238  794.74072   -0.75   WIL-47  797.04
2447543.734 310599.238  794.26512   -1.32   WIL-47  797.04
2447543.734 310599.238  793.8092    -0.84   WIL-47  797.04
2447543.734 310599.238  793.32376   8.72    WIL-47  797.04
2447543.734 310599.238  792.88752   0.39    WIL-47  797.04
2447543.734 310599.238  792.44144   17.26   WIL-47  797.04
2447543.734 310599.238  791.99864   20.4    WIL-47  797.04
2447543.734 310599.238  791.54272   12.98   WIL-47  797.04
2447543.734 310599.238  791.11304   42.76   WIL-47  797.04
2447543.734 310599.238  790.65056   19.76   WIL-47  797.04
2447543.734 310599.238  790.19464   42.53   WIL-47  797.04
2447543.734 310599.238  789.70592   44.85   WIL-47  797.04
2447543.734 310599.238  789.24672   100.91  WIL-47  797.04
2447543.734 310599.238  788.94824   56.45   WIL-47  797.04
2447567.442 310652.069  798.647 1.13    WIL-48  798.647
2447567.442 310652.069  798.57484   0.33    WIL-48  798.647
2447567.442 310652.069  798.4502    0.24    WIL-48  798.647
2447567.442 310652.069  798.36164   0.09    WIL-48  798.647
2447567.442 310652.069  798.19436   0   WIL-48  798.647
2447567.442 310652.069  798.15828   0.4 WIL-48  798.647
2447567.442 310652.069  797.93524   0.18    WIL-48  798.647
2447567.442 310652.069  797.71876   0.17    WIL-48  798.647
2447567.442 310652.069  797.50884   0.01    WIL-48  798.647
2447567.442 310652.069  797.18084   0.35    WIL-48  798.647
2447567.442 310652.069  797.13164   0   WIL-48  798.647
2447567.442 310652.069  797.00372   0.44    WIL-48  798.647
2447567.442 310652.069  796.843 0.02    WIL-48  798.647
2447567.442 310652.069  796.50844   1.75    WIL-48  798.647
2447567.442 310652.069  796.0558    2   WIL-48  798.647
2447567.442 310652.069  795.62612   1.61    WIL-48  798.647
2447567.442 310652.069  795.16692   0.54    WIL-48  798.647
2447567.442 310652.069  794.7274    0.44    WIL-48  798.647
2447567.442 310652.069  794.24524   0.4 WIL-48  798.647
2447567.442 310652.069  794.1698    0.01    WIL-48  798.647
2447567.442 310652.069  793.91068   0.68    WIL-48  798.647
2447567.442 310652.069  793.42852   0.36    WIL-48  798.647
2447567.442 310652.069  792.97916   1.29    WIL-48  798.647
2447567.442 310652.069  792.54292   1.72    WIL-48  798.647
2447567.442 310652.069  792.07716   1.32    WIL-48  798.647
2447567.442 310652.069  791.63436   1.52    WIL-48  798.647
2447567.442 310652.069  791.15876   2.08    WIL-48  798.647
2447567.442 310652.069  790.72252   2.03    WIL-48  798.647
2447567.442 310652.069  790.5782    3.45    WIL-48  798.647
2447433.68  310472.897  793.982 0.94    WIL-49  793.982
```

```
2447433.68  310472.897  793.53592   -0.78   WIL-49  793.982
2447433.68  310472.897  793.09312   -0.68   WIL-49  793.982
2447433.68  310472.897  792.6372    -0.17   WIL-49  793.982
2447433.68  310472.897  792.15176   -0.63   WIL-49  793.982
2447433.68  310472.897  791.69584   -0.22   WIL-49  793.982
2447433.68  310472.897  791.25304   -0.36   WIL-49  793.982
2447433.68  310472.897  790.81024   -0.61   WIL-49  793.982
2447433.68  310472.897  790.35432   -0.73   WIL-49  793.982
2447433.68  310472.897  789.90496   -0.97   WIL-49  793.982
2447433.68  310472.897  789.44576   -0.8    WIL-49  793.982
2447433.68  310472.897  788.95376   -0.78   WIL-49  793.982
2447433.68  310472.897  788.52408   -0.88   WIL-49  793.982
2447433.68  310472.897  788.08128   -0.79   WIL-49  793.982
2447433.68  310472.897  787.56632   -0.86   WIL-49  793.982
2447433.68  310472.897  787.08416   -0.82   WIL-49  793.982
2447433.68  310472.897  786.62168   -0.78   WIL-49  793.982
2447433.68  310472.897  786.18544   -0.81   WIL-49  793.982
2447433.68  310472.897  785.7328    -0.76   WIL-49  793.982
2447433.68  310472.897  785.2736    -0.9    WIL-49  793.982
2447433.68  310472.897  784.82096   -1  WIL-49  793.982
2447433.68  310472.897  784.35848   -0.98   WIL-49  793.982
2447433.68  310472.897  783.83368   -0.76   WIL-49  793.982
2447433.68  310472.897  783.36136   -0.77   WIL-49  793.982
2447433.68  310472.897  782.84312   -0.79   WIL-49  793.982
2447433.68  310472.897  782.34456   -0.87   WIL-49  793.982
2447433.68  310472.897  781.9116    -0.83   WIL-49  793.982
2447433.68  310472.897  781.4688    -0.78   WIL-49  793.982
2447433.68  310472.897  781.03912   -0.77   WIL-49  793.982
2447433.68  310472.897  780.59632   -0.73   WIL-49  793.982
2447433.68  310472.897  780.14696   -0.78   WIL-49  793.982
2447433.68  310472.897  780.00592   -0.67   WIL-49  793.982
2447512.883 310535.233  790.97  1.05    WIL-50  790.97
2447512.883 310535.233  790.49768   1.36    WIL-50  790.97
2447512.883 310535.233  790.01224   1.21    WIL-50  790.97
2447512.883 310535.233  789.57272   1.09    WIL-50  790.97
2447512.883 310535.233  789.12664   1   WIL-50  790.97
2447512.883 310535.233  788.68056   1.07    WIL-50  790.97
2447512.883 310535.233  788.20496   0.99    WIL-50  790.97
2447512.883 310535.233  787.75232   1.06    WIL-50  790.97
2447512.883 310535.233  787.29312   0.8 WIL-50  790.97
2447512.883 310535.233  786.82408   1.07    WIL-50  790.97
2447512.883 310535.233  786.35504   1.16    WIL-50  790.97
2447512.883 310535.233  785.89584   1.19    WIL-50  790.97
2447512.883 310535.233  785.56128   1.43    WIL-50  790.97
2447597.622 310575.126  791.044 0.63    WIL-51  791.044
2447597.622 310575.126  790.56184   0.97    WIL-51  791.044
2447597.622 310575.126  790.12232   0.45    WIL-51  791.044
2447597.622 310575.126  789.64344   0.39    WIL-51  791.044
2447597.622 310575.126  789.19408   0.54    WIL-51  791.044
2447597.622 310575.126  788.76112   1.76    WIL-51  791.044
2447597.622 310575.126  788.32488   0.69    WIL-51  791.044
2447597.622 310575.126  787.8624    0.53    WIL-51  791.044
2447597.622 310575.126  787.3868    3.91    WIL-51  791.044
2447597.622 310575.126  786.8784    25.38   WIL-51  791.044
2447597.622 310575.126  786.39624   19.97   WIL-51  791.044
2447597.622 310575.126  785.88128   16.27   WIL-51  791.044
2447597.622 310575.126  785.39584   9.63    WIL-51  791.044
2447597.622 310575.126  784.90384   17.7    WIL-51  791.044
2447597.622 310575.126  784.3856    23.33   WIL-51  791.044
2447597.622 310575.126  783.9264    25.31   WIL-51  791.044
2447597.622 310575.126  783.4672    12.36   WIL-51  791.044
2447597.622 310575.126  782.96536   23.76   WIL-51  791.044
2447597.622 310575.126  782.50616   28.57   WIL-51  791.044
2447597.622 310575.126  782.2208    63.17   WIL-51  791.044
```

```
2447597.622 310575.126  781.696 28.25   WIL-51  791.044
2447597.622 310575.126  781.2532    29.36   WIL-51  791.044
2447597.622 310575.126  780.74152   30.17   WIL-51  791.044
2447597.622 310575.126  780.25936   38.95   WIL-51  791.044
2447597.622 310575.126  779.78376   26.51   WIL-51  791.044
2447597.622 310575.126  779.29832   6.84    WIL-51  791.044
2447597.622 310575.126  778.81944   3.95    WIL-51  791.044
2447597.622 310575.126  778.29464   3.2 WIL-51  791.044
2447597.622 310575.126  777.83216   1.44    WIL-51  791.044
2447597.622 310575.126  777.36312   0.82    WIL-51  791.044
2447597.622 310575.126  777.02856   0.46    WIL-51  791.044
2447597.622 310575.126  776.59888   0.79    WIL-51  791.044
2447597.622 310575.126  776.1364    0.73    WIL-51  791.044
2447597.622 310575.126  775.70344   0.86    WIL-51  791.044
2447597.622 310575.126  775.27048   0.85    WIL-51  791.044
2447597.622 310575.126  774.74568   1.54    WIL-51  791.044
2447597.622 310575.126  774.25368   1.52    WIL-51  791.044
2447597.622 310575.126  773.82072   5.23    WIL-51  791.044
2447597.622 310575.126  773.72232   6.75    WIL-51  791.044
2447597.622 310575.126  773.25656   1.22    WIL-51  791.044
2447597.622 310575.126  772.82688   0.72    WIL-51  791.044
2447597.622 310575.126  772.39064   0.61    WIL-51  791.044
2447597.622 310575.126  771.91832   0.33    WIL-51  791.044
2447597.622 310575.126  771.446 0.3 WIL-51  791.044
2447597.622 310575.126  771.00648   0.53    WIL-51  791.044
2447597.622 310575.126  770.56696   0.86    WIL-51  791.044
2447597.622 310575.126  770.12416   0.56    WIL-51  791.044
2447597.622 310575.126  769.68464   1.02    WIL-51  791.044
2447597.622 310575.126  769.23856   0.46    WIL-51  791.044
2447597.622 310575.126  769.01552   0.2 WIL-51  791.044
2447597.622 310575.126  768.576 0.73    WIL-51  791.044
2447597.622 310575.126  768.06432   1.14    WIL-51  791.044
2447597.622 310575.126  767.86096   2.48    WIL-51  791.044
2447610.795 310643.819  791.54  -0.28   WIL-52  791.54
2447610.795 310643.819  791.06112   0.03    WIL-52  791.54
2447610.795 310643.819  790.59536   0.12    WIL-52  791.54
2447610.795 310643.819  790.15256   -0.12   WIL-52  791.54
2447610.795 310643.819  789.69336   -0.25   WIL-52  791.54
2447610.795 310643.819  789.1948    -0.38   WIL-52  791.54
2447610.795 310643.819  788.69624   -0.03   WIL-52  791.54
2447610.795 310643.819  788.2108    -0.15   WIL-52  791.54
2447610.795 310643.819  787.74504   -0.28   WIL-52  791.54
2447610.795 310643.819  787.29896   -0.43   WIL-52  791.54
2447610.795 310643.819  786.83976   -0.34   WIL-52  791.54
2447610.795 310643.819  786.38384   -0.25   WIL-52  791.54
2447610.795 310643.819  785.93448   -0.16   WIL-52  791.54
2447610.795 310643.819  785.43264   0.55    WIL-52  791.54
2447610.795 310643.819  784.96688   5.19    WIL-52  791.54
2447610.795 310643.819  784.49784   16.93   WIL-52  791.54
2447610.795 310643.819  784.03536   15.6    WIL-52  791.54
2447610.795 310643.819  783.5204    19.41   WIL-52  791.54
2447610.795 310643.819  783.04808   49.46   WIL-52  791.54
2447610.795 310643.819  782.55936   8   WIL-52  791.54
2447610.795 310643.819  782.07064   10.63   WIL-52  791.54
2447610.795 310643.819  781.618 53.93   WIL-52  791.54
2447610.795 310643.819  781.16208   13.29   WIL-52  791.54
2447610.795 310643.819  780.7324    3.17    WIL-52  791.54
2447610.795 310643.819  780.29944   4.36    WIL-52  791.54
2447610.795 310643.819  779.77792   0.46    WIL-52  791.54
2447610.795 310643.819  779.26296   1.67    WIL-52  791.54
2447610.795 310643.819  778.79392   0.88    WIL-52  791.54
2447610.795 310643.819  778.35112   0.05    WIL-52  791.54
2447610.795 310643.819  778.174 -0.3    WIL-52  791.54
2447664.092 310635.827  787.86  0.54    WIL-53  787.86
```

```
2447664.092 310635.827  787.39424   0.31    WIL-53  787.86
2447664.092 310635.827  786.9416    0.21    WIL-53  787.86
2447664.092 310635.827  786.48896   0.15    WIL-53  787.86
2447664.092 310635.827  786.02648   0.08    WIL-53  787.86
2447664.092 310635.827  785.55416   0.04    WIL-53  787.86
2447664.092 310635.827  785.11792   0.18    WIL-53  787.86
2447664.092 310635.827  784.6456    0.13    WIL-53  787.86
2447664.092 310635.827  784.17656   0.29    WIL-53  787.86
2447664.092 310635.827  783.70424   0.21    WIL-53  787.86
2447664.092 310635.827  783.2352    0.13    WIL-53  787.86
2447664.092 310635.827  782.7268    -0.08   WIL-53  787.86
2447664.092 310635.827  782.28728   -0.09   WIL-53  787.86
2447664.092 310635.827  781.78216   -0.23   WIL-53  787.86
2447664.092 310635.827  781.2836    -0.62   WIL-53  787.86
2447664.092 310635.827  780.80472   -0.67   WIL-53  787.86
2447664.092 310635.827  780.30944   -0.53   WIL-53  787.86
2447664.092 310635.827  779.85024   0.6 WIL-53  787.86
2447664.092 310635.827  779.38776   -0.22   WIL-53  787.86
2447664.092 310635.827  778.87608   5.56    WIL-53  787.86
2447664.092 310635.827  778.43  -0.55   WIL-53  787.86
2447664.092 310635.827  777.94456   1.51    WIL-53  787.86
2447664.092 310635.827  777.49192   8.07    WIL-53  787.86
2447664.092 310635.827  777.036 7.1 WIL-53  787.86
2447664.092 310635.827  776.54072   23.24   WIL-53  787.86
2447664.092 310635.827  776.04872   3.36    WIL-53  787.86
2447664.092 310635.827  775.56328   2.54    WIL-53  787.86
2447664.092 310635.827  775.09752   0.95    WIL-53  787.86
2447664.092 310635.827  774.66128   2   WIL-53  787.86
2447664.092 310635.827  774.22504   1.49    WIL-53  787.86
2447664.092 310635.827  773.79208   2.43    WIL-53  787.86
2447664.092 310635.827  773.35256   0.13    WIL-53  787.86
2447664.092 310635.827  772.88024   0.03    WIL-53  787.86
2447664.092 310635.827  772.3948    -0.2    WIL-53  787.86
2447664.092 310635.827  771.90936   -0.13   WIL-53  787.86
2447664.092 310635.827  771.45344   0.04    WIL-53  787.86
2447664.092 310635.827  770.93192   4.21    WIL-53  787.86
2447664.092 310635.827  770.50224   12.94   WIL-53  787.86
2447664.092 310635.827  770.07256   2.25    WIL-53  787.86
2447664.092 310635.827  769.54776   -0.36   WIL-53  787.86
2447664.092 310635.827  769.02296   -1.08   WIL-53  787.86
2447664.092 310635.827  768.53424   -0.05   WIL-53  787.86
2447664.092 310635.827  768.016 -2.28   WIL-53  787.86
2447664.092 310635.827  767.524 -1.4    WIL-53  787.86
2447664.092 310635.827  767.09432   0.3 WIL-53  787.86
2447664.092 310635.827  766.6384    -2.08   WIL-53  787.86
2447664.092 310635.827  766.20872   -1.7    WIL-53  787.86
2447664.092 310635.827  765.72656   -1.47   WIL-53  787.86
2447664.092 310635.827  765.2116    -0.97   WIL-53  787.86
2447664.092 310635.827  764.75568   -3.25   WIL-53  787.86
2447664.092 310635.827  764.24072   -2.88   WIL-53  787.86
2447664.092 310635.827  763.81104   -1.42   WIL-53  787.86
2447664.092 310635.827  763.29608   -2.89   WIL-53  787.86
2447664.092 310635.827  762.8172    -3.52   WIL-53  787.86
2447664.092 310635.827  762.3252    -3.15   WIL-53  787.86
2447664.092 310635.827  761.83648   -4.2    WIL-53  787.86
2447664.092 310635.827  761.38056   -3.17   WIL-53  787.86
2447664.092 310635.827  760.90496   -0.97   WIL-53  787.86
2447664.092 310635.827  760.472 -1.77   WIL-53  787.86
2447664.092 310635.827  760.00624   -2.23   WIL-53  787.86
2447664.092 310635.827  759.5044    -2.76   WIL-53  787.86
2447664.092 310635.827  758.98944   -4.24   WIL-53  787.86
2447664.092 310635.827  758.504 -3.42   WIL-53  787.86
2447664.092 310635.827  757.9792    -3.29   WIL-53  787.86
2447664.092 310635.827  757.52656   -2.19   WIL-53  787.86
```

```
2447664.092 310635.827  757.08048   -0.89   WIL-53  787.86
2447664.092 310635.827  756.56224   -1.84   WIL-53  787.86
2447664.092 310635.827  756.044 -3.61   WIL-53  787.86
2447664.092 310635.827  755.55528   -3.55   WIL-53  787.86
2447664.092 310635.827  755.05672   -1.97   WIL-53  787.86
2447664.092 310635.827  754.54832   -3.12   WIL-53  787.86
2447664.092 310635.827  754.06288   -4.66   WIL-53  787.86
2447664.092 310635.827  753.6168    -2.81   WIL-53  787.86
2447664.092 310635.827  753.54792   -1.43   WIL-53  787.86
2447682.167 310671.867  802.011 0.32    WIL-54  802.011
2447682.167 310671.867  801.58132   0.63    WIL-54  802.011
2447682.167 310671.867  801.11228   0.36    WIL-54  802.011
2447682.167 310671.867  800.60388   0.28    WIL-54  802.011
2447682.167 310671.867  800.09876   0.37    WIL-54  802.011
2447682.167 310671.867  799.59692   0.88    WIL-54  802.011
2447682.167 310671.867  799.16724   0.77    WIL-54  802.011
2447682.167 310671.867  798.64244   1.27    WIL-54  802.011
2447682.167 310671.867  798.18652   1.12    WIL-54  802.011
2447682.167 310671.867  797.71092   1.35    WIL-54  802.011
2447682.167 310671.867  797.25828   1.11    WIL-54  802.011
2447682.167 310671.867  796.80892   0.97    WIL-54  802.011
2447682.167 310671.867  796.599 1.11    WIL-54  802.011
2447682.167 310671.867  796.14308   0.83    WIL-54  802.011
2447682.167 310671.867  795.67732   -0.05   WIL-54  802.011
2447682.167 310671.867  795.23452   -0.58   WIL-54  802.011
2447682.167 310671.867  794.75236   -0.82   WIL-54  802.011
2447682.167 310671.867  794.303 -0.15   WIL-54  802.011
2447682.167 310671.867  794.0242    0.03    WIL-54  802.011
2447682.167 310671.867  793.565 -1.15   WIL-54  802.011
2447682.167 310671.867  793.1058    0.74    WIL-54  802.011
2447682.167 310671.867  792.60724   0.92    WIL-54  802.011
2447682.167 310671.867  792.42356   2.79    WIL-54  802.011
2447682.167 310671.867  792.22348   0.22    WIL-54  802.011
2447682.167 310671.867  791.77412   -0.97   WIL-54  802.011
2447682.167 310671.867  791.3182    -1  WIL-54  802.011
2447682.167 310671.867  790.79668   1.45    WIL-54  802.011
2447682.167 310671.867  790.3178    1.72    WIL-54  802.011
2447682.167 310671.867  789.83892   1.8 WIL-54  802.011
2447682.167 310671.867  789.36004   5.03    WIL-54  802.011
2447682.167 310671.867  789.3174    5.32    WIL-54  802.011
2447682.167 310671.867  788.88444   3.08    WIL-54  802.011
2447682.167 310671.867  788.42852   1.55    WIL-54  802.011
2447682.167 310671.867  787.93652   3.73    WIL-54  802.011
2447682.167 310671.867  787.48716   4.53    WIL-54  802.011
2447682.167 310671.867  787.0378    1.13    WIL-54  802.011
2447682.167 310671.867  786.55236   4.98    WIL-54  802.011
2447682.167 310671.867  786.08004   2.59    WIL-54  802.011
2447682.167 310671.867  785.6274    4.55    WIL-54  802.011
2447682.167 310671.867  785.1846    4.95    WIL-54  802.011
2447682.167 310671.867  784.72212   2.61    WIL-54  802.011
2447682.167 310671.867  784.25308   1.98    WIL-54  802.011
2447682.167 310671.867  783.7578    1.08    WIL-54  802.011
2447682.167 310671.867  783.29532   1.62    WIL-54  802.011
2447682.167 310671.867  782.84268   1.1 WIL-54  802.011
2447682.167 310671.867  782.56388   1.06    WIL-54  802.011
2447682.167 310671.867  782.1178    2.26    WIL-54  802.011
2447682.167 310671.867  781.6422    2.78    WIL-54  802.011
2447682.167 310671.867  781.2978    11.33   WIL-54  802.011
2447682.167 310671.867  780.81236   1.2 WIL-54  802.011
2447682.167 310671.867  780.35972   2.27    WIL-54  802.011
2447682.167 310671.867  779.84476   4.05    WIL-54  802.011
2447682.167 310671.867  779.38228   0.8 WIL-54  802.011
2447682.167 310671.867  779.08708   0.35    WIL-54  802.011
2447682.167 310671.867  778.64428   0.66    WIL-54  802.011
```

```
2447682.167 310671.867  778.2146    1.12    WIL-54  802.011
2447682.167 310671.867  777.67668   1.02    WIL-54  802.011
2447682.167 310671.867  777.20436   11.73   WIL-54  802.011
2447682.167 310671.867  776.8534    14.11   WIL-54  802.011
2447682.167 310671.867  776.42372   3.04    WIL-54  802.011
2447682.167 310671.867  776.12524   0.06    WIL-54  802.011
2447682.167 310671.867  775.67916   -0.3    WIL-54  802.011
2447682.167 310671.867  775.19044   0.77    WIL-54  802.011
2447682.167 310671.867  774.75748   1.02    WIL-54  802.011
2447682.167 310671.867  774.61644   0.43    WIL-54  802.011
2447650.319 310554.047  791.539 1.65    WIL-55  791.539
2447650.319 310554.047  791.07652   1.33    WIL-55  791.539
2447650.319 310554.047  790.62388   0.78    WIL-55  791.539
2447650.319 310554.047  790.13188   1.51    WIL-55  791.539
2447650.319 310554.047  789.7022    1.88    WIL-55  791.539
2447650.319 310554.047  789.26268   2.38    WIL-55  791.539
2447650.319 310554.047  788.78052   3.33    WIL-55  791.539
2447650.319 310554.047  788.32788   2.7 WIL-55  791.539
2447650.319 310554.047  787.8162    2.94    WIL-55  791.539
2447650.319 310554.047  787.36684   3.1 WIL-55  791.539
2447650.319 310554.047  786.92076   2.56    WIL-55  791.539
2447650.319 310554.047  786.4714    4.46    WIL-55  791.539
2447650.319 310554.047  786.02204   6.96    WIL-55  791.539
2447650.319 310554.047  785.57268   6.91    WIL-55  791.539
2447650.319 310554.047  785.09708   12.95   WIL-55  791.539
2447650.319 310554.047  784.651 14.46   WIL-55  791.539
2447650.319 310554.047  784.16228   11.64   WIL-55  791.539
2447650.319 310554.047  783.70308   6.6 WIL-55  791.539
2447650.319 310554.047  783.24716   3.96    WIL-55  791.539
2447650.319 310554.047  782.78796   7.24    WIL-55  791.539
2447650.319 310554.047  782.3222    2.81    WIL-55  791.539
2447650.319 310554.047  781.86956   2.38    WIL-55  791.539
2447650.319 310554.047  781.69572   2.39    WIL-55  791.539
2447650.319 310554.047  781.3054    29.32   WIL-55  791.539
2447650.319 310554.047  780.81012   11.41   WIL-55  791.539
2447650.319 310554.047  780.34764   9.77    WIL-55  791.539
2447650.319 310554.047  779.88516   10.5    WIL-55  791.539
2447650.319 310554.047  779.41284   8.68    WIL-55  791.539
2447650.319 310554.047  778.95364   12.63   WIL-55  791.539
2447650.319 310554.047  778.66828   3.77    WIL-55  791.539
2447650.319 310554.047  778.23532   8.42    WIL-55  791.539
2447650.319 310554.047  777.79252   22.21   WIL-55  791.539
2447650.319 310554.047  777.31692   6.86    WIL-55  791.539
2447650.319 310554.047  776.87084   21.93   WIL-55  791.539
2447650.319 310554.047  776.41492   11.6    WIL-55  791.539
2447650.319 310554.047  775.93932   63.1    WIL-55  791.539
2447650.319 310554.047  775.42436   4.27    WIL-55  791.539
2447650.319 310554.047  774.98156   1.87    WIL-55  791.539
2447650.319 310554.047  774.51252   17.81   WIL-55  791.539
2447650.319 310554.047  774.06644   1.04    WIL-55  791.539
2447650.319 310554.047  773.86636   0.99    WIL-55  791.539
2447650.319 310554.047  773.42028   1.56    WIL-55  791.539
2447650.319 310554.047  772.98732   3.02    WIL-55  791.539
2447650.319 310554.047  772.5478    1.92    WIL-55  791.539
2447650.319 310554.047  772.0394    2.29    WIL-55  791.539
2447650.319 310554.047  771.60316   1.68    WIL-55  791.539
2447650.319 310554.047  771.16364   1.52    WIL-55  791.539
2447650.319 310554.047  770.72412   2.48    WIL-55  791.539
2447650.319 310554.047  770.29116   2.25    WIL-55  791.539
2447650.319 310554.047  770.11404   1.74    WIL-55  791.539
2447650.319 310554.047  769.645 33.95   WIL-55  791.539
2447650.319 310554.047  769.1858    70.37   WIL-55  791.539
2447650.319 310554.047  769.09068   81.12   WIL-55  791.539
2447650.319 310554.047  768.5954    4.65    WIL-55  791.539
```

```
2447650.319 310554.047  768.44124   2.07    WIL-55  791.539
2447650.319 310554.047  768.005 20.24   WIL-55  791.539
2447650.319 310554.047  767.51628   12.91   WIL-55  791.539
2447650.319 310554.047  767.08004   24.52   WIL-55  791.539
2447650.319 310554.047  766.64708   21.91   WIL-55  791.539
2447650.319 310554.047  766.27316   53.4    WIL-55  791.539
2447650.319 310554.047  765.78772   13.26   WIL-55  791.539
2447650.319 310554.047  765.46956   5.76    WIL-55  791.539
2447688.346 310508.379  789.597 0.62    WIL-56  789.597
2447688.346 310508.379  789.4166    0.03    WIL-56  789.597
2447688.346 310508.379  788.91148   0.11    WIL-56  789.597
2447688.346 310508.379  788.5802    0.71    WIL-56  789.597
2447688.346 310508.379  788.1046    0.47    WIL-56  789.597
2447688.346 310508.379  787.67164   0.32    WIL-56  789.597
2447688.346 310508.379  787.19604   0.46    WIL-56  789.597
2447688.346 310508.379  786.74996   0.8 WIL-56  789.597
2447688.346 310508.379  786.31372   0.84    WIL-56  789.597
2447688.346 310508.379  785.88076   0.53    WIL-56  789.597
2447688.346 310508.379  785.44124   0.72    WIL-56  789.597
2447711.866 310585.081  789.295 1.14    WIL-57  789.295
2447711.866 310585.081  788.85548   1.59    WIL-57  789.295
2447711.866 310585.081  788.39956   1.62    WIL-57  789.295
2447711.866 310585.081  787.89116   1.81    WIL-57  789.295
2447711.866 310585.081  787.46148   1.76    WIL-57  789.295
2447711.866 310585.081  787.02196   1.71    WIL-57  789.295
2447711.866 310585.081  786.58244   1.61    WIL-57  789.295
2447711.866 310585.081  786.07076   1.54    WIL-57  789.295
2447711.866 310585.081  785.59516   1.68    WIL-57  789.295
2447711.866 310585.081  785.11956   1.94    WIL-57  789.295
2447711.866 310585.081  784.64724   2.81    WIL-57  789.295
2447711.866 310585.081  784.129 2.9 WIL-57  789.295
2447711.866 310585.081  783.65996   2.19    WIL-57  789.295
2447711.866 310585.081  783.23028   1.85    WIL-57  789.295
2447711.866 310585.081  782.73828   1.92    WIL-57  789.295
2447711.866 310585.081  782.20364   2.12    WIL-57  789.295
2447711.866 310585.081  781.7182    2.5 WIL-57  789.295
2447711.866 310585.081  781.23604   1.86    WIL-57  789.295
2447711.866 310585.081  780.78996   2.42    WIL-57  789.295
2447711.866 310585.081  780.26844   3.99    WIL-57  789.295
2447711.866 310585.081  779.75676   2.26    WIL-57  789.295
2447711.866 310585.081  779.23524   3.63    WIL-57  789.295
2447711.866 310585.081  778.71372   3.48    WIL-57  789.295
2447711.866 310585.081  778.28404   5.09    WIL-57  789.295
2447711.866 310585.081  777.76252   2.13    WIL-57  789.295
2447711.866 310585.081  777.30332   2.01    WIL-57  789.295
2447711.866 310585.081  776.84412   2.14    WIL-57  789.295
2447711.866 310585.081  776.39804   2.02    WIL-57  789.295
2447711.866 310585.081  775.91588   2.37    WIL-57  789.295
2447711.866 310585.081  775.4862    2.54    WIL-57  789.295
2447711.866 310585.081  775.00076   5.7 WIL-57  789.295
2447711.866 310585.081  774.5186    2.96    WIL-57  789.295
2447711.866 310585.081  774.20372   5.13    WIL-57  789.295
2447785.755 310619.399  797.973 0.16    WIL-58  797.973
2447785.755 310619.399  797.48756   0.91    WIL-58  797.973
2447785.755 310619.399  797.00212   0.93    WIL-58  797.973
2447785.755 310619.399  796.50028   1.07    WIL-58  797.973
2447785.755 310619.399  795.9886    1.07    WIL-58  797.973
2447785.755 310619.399  795.55564   1.03    WIL-58  797.973
2447785.755 310619.399  795.08332   1.02    WIL-58  797.973
2447785.755 310619.399  794.62412   1.08    WIL-58  797.973
2447785.755 310619.399  794.19116   0.97    WIL-58  797.973
2447785.755 310619.399  793.76148   1.09    WIL-58  797.973
2447785.755 310619.399  793.3318    0.89    WIL-58  797.973
2447785.755 310619.399  792.82668   0.97    WIL-58  797.973
```

```
2447785.755 310619.399  792.32156   0.98    WIL-58  797.973
2447785.755 310619.399  791.84596   1   WIL-58  797.973
2447785.755 310619.399  791.37692   0.83    WIL-58  797.973
2447785.755 310619.399  790.93084   0.9 WIL-58  797.973
2447785.755 310619.399  790.48804   1.11    WIL-58  797.973
2447785.755 310619.399  790.04196   1.18    WIL-58  797.973
2447785.755 310619.399  789.58932   1.13    WIL-58  797.973
2447785.755 310619.399  789.13996   1.24    WIL-58  797.973
2447785.755 310619.399  788.64468   1.57    WIL-58  797.973
2447785.755 310619.399  788.19204   2.08    WIL-58  797.973
2447785.755 310619.399  787.73284   9.43    WIL-58  797.973
2447785.755 310619.399  787.24084   16.45   WIL-58  797.973
2447785.755 310619.399  786.77836   1.84    WIL-58  797.973
2447785.755 310619.399  786.31588   3.81    WIL-58  797.973
2447785.755 310619.399  785.79764   2.55    WIL-58  797.973
2447785.755 310619.399  785.30564   1.52    WIL-58  797.973
2447785.755 310619.399  785.23348   1.14    WIL-58  797.973
2447785.755 310619.399  784.76772   5.23    WIL-58  797.973
2447785.755 310619.399  784.29868   4.12    WIL-58  797.973
2447785.755 310619.399  783.79356   12.33   WIL-58  797.973
2447785.755 310619.399  783.61316   53.36   WIL-58  797.973
2447785.755 310619.399  783.13756   6.17    WIL-58  797.973
2447785.755 310619.399  782.66196   6.77    WIL-58  797.973
2447785.755 310619.399  782.20604   4.01    WIL-58  797.973
2447785.755 310619.399  781.74684   23.46   WIL-58  797.973
2447785.755 310619.399  781.24172   11.66   WIL-58  797.973
2447785.755 310619.399  780.77596   9.78    WIL-58  797.973
2447785.755 310619.399  780.3102    3.78    WIL-58  797.973
2447785.755 310619.399  779.80508   2.09    WIL-58  797.973
2447785.755 310619.399  779.4574    1.21    WIL-58  797.973
2447785.755 310619.399  779.00148   2.68    WIL-58  797.973
2447785.755 310619.399  778.539 1.9 WIL-58  797.973
2447785.755 310619.399  778.06996   3.96    WIL-58  797.973
2447785.755 310619.399  777.60748   5.57    WIL-58  797.973
2447785.755 310619.399  777.28276   12.37   WIL-58  797.973
2447785.755 310619.399  776.81372   0.62    WIL-58  797.973
2447785.755 310619.399  776.34796   0.62    WIL-58  797.973
2447785.755 310619.399  776.3414    0.48    WIL-58  797.973
2447785.755 310619.399  775.89204   0.51    WIL-58  797.973
2447785.755 310619.399  775.423 0.87    WIL-58  797.973
2447785.755 310619.399  774.9474    0.58    WIL-58  797.973
2447785.755 310619.399  774.4718    0.49    WIL-58  797.973
2447785.755 310619.399  773.98964   0.69    WIL-58  797.973
2447785.755 310619.399  773.47796   0.62    WIL-58  797.973
2447785.755 310619.399  772.98596   0.92    WIL-58  797.973
2447785.755 310619.399  772.51364   1.08    WIL-58  797.973
2447785.755 310619.399  772.01836   0.97    WIL-58  797.973
2447785.755 310619.399  771.56572   1.28    WIL-58  797.973
2447785.755 310619.399  771.10652   0.98    WIL-58  797.973
2447785.755 310619.399  770.6506    1.13    WIL-58  797.973
2447785.755 310619.399  770.15532   0.96    WIL-58  797.973
2447785.755 310619.399  769.69612   1.07    WIL-58  797.973
2447785.755 310619.399  769.23692   1.23    WIL-58  797.973
2447785.755 310619.399  768.76788   0.78    WIL-58  797.973
2447785.755 310619.399  768.29556   0.74    WIL-58  797.973
2447785.755 310619.399  767.78716   1.23    WIL-58  797.973
2447785.755 310619.399  767.30828   0.95    WIL-58  797.973
2447785.755 310619.399  766.8294    1.15    WIL-58  797.973
2447785.755 310619.399  766.34724   1.32    WIL-58  797.973
2447785.755 310619.399  765.88804   1.28    WIL-58  797.973
2447785.755 310619.399  765.37964   1.18    WIL-58  797.973
2447785.755 310619.399  764.90732   1.11    WIL-58  797.973
2447785.755 310619.399  764.435 1.18    WIL-58  797.973
2447785.755 310619.399  763.95612   1.29    WIL-58  797.973
```

```
2447785.755 310619.399  763.4838    1.47    WIL-58  797.973
2447785.755 310619.399  763.03116   1.22    WIL-58  797.973
2447785.755 310619.399  762.54244   1.43    WIL-58  797.973
2447785.755 310619.399  762.07668   1.26    WIL-58  797.973
2447785.755 310619.399  761.6142    1.14    WIL-58  797.973
2447785.755 310619.399  761.14844   1.15    WIL-58  797.973
2447785.755 310619.399  760.68268   1.08    WIL-58  797.973
2447785.755 310619.399  760.21364   1.1 WIL-58  797.973
2447785.755 310619.399  759.8594    0.89    WIL-58  797.973
2447767.531 310589.97   790.54  0.82    WIL-59  790.54
2447767.531 310589.97   790.02176   1.18    WIL-59  790.54
2447767.531 310589.97   789.54616   0.78    WIL-59  790.54
2447767.531 310589.97   789.07056   0.93    WIL-59  790.54
2447767.531 310589.97   788.5884    0.97    WIL-59  790.54
2447767.531 310589.97   788.08656   1.03    WIL-59  790.54
2447767.531 310589.97   787.6372    0.94    WIL-59  790.54
2447767.531 310589.97   787.18784   0.92    WIL-59  790.54
2447767.531 310589.97   786.69584   0.91    WIL-59  790.54
2447767.531 310589.97   786.19728   0.88    WIL-59  790.54
2447767.531 310589.97   785.69544   0.85    WIL-59  790.54
2447767.531 310589.97   785.22312   0.89    WIL-59  790.54
2447767.531 310589.97   784.78032   0.97    WIL-59  790.54
2447767.531 310589.97   784.31784   0.92    WIL-59  790.54
2447767.531 310589.97   783.87832   0.84    WIL-59  790.54
2447767.531 310589.97   783.36664   0.78    WIL-59  790.54
2447767.531 310589.97   782.88448   0.77    WIL-59  790.54
2447767.531 310589.97   782.36952   0.64    WIL-59  790.54
2447767.531 310589.97   781.85128   0.71    WIL-59  790.54
2447767.531 310589.97   781.3724    0.71    WIL-59  790.54
2447767.531 310589.97   780.86728   0.74    WIL-59  790.54
2447767.531 310589.97   780.41136   0.75    WIL-59  790.54
2447767.531 310589.97   779.9784    0.74    WIL-59  790.54
2447767.531 310589.97   779.50608   0.81    WIL-59  790.54
2447767.531 310589.97   779.04032   2.57    WIL-59  790.54
2447767.531 310589.97   778.6008    2.12    WIL-59  790.54
2447767.531 310589.97   778.09896   1.38    WIL-59  790.54
2447767.531 310589.97   777.666 4.95    WIL-59  790.54
2447767.531 310589.97   777.22976   2.28    WIL-59  790.54
2447767.531 310589.97   776.75744   2.43    WIL-59  790.54
2447767.531 310589.97   776.31792   7.02    WIL-59  790.54
2447767.531 310589.97   775.8784    2.72    WIL-59  790.54
2447767.531 310589.97   775.40936   3.39    WIL-59  790.54
2447767.531 310589.97   774.8944    1.74    WIL-59  790.54
2447767.531 310589.97   774.45816   2.64    WIL-59  790.54
2447767.531 310589.97   774.35976   1.25    WIL-59  790.54
2447767.531 310589.97   773.92352   3.33    WIL-59  790.54
2447767.531 310589.97   773.48728   5.73    WIL-59  790.54
2447767.531 310589.97   773.04776   11.84   WIL-59  790.54
2447767.531 310589.97   772.59512   16.12   WIL-59  790.54
2447767.531 310589.97   772.14904   38.34   WIL-59  790.54
2447767.531 310589.97   771.70952   7.36    WIL-59  790.54
2447767.531 310589.97   771.2372    6.14    WIL-59  790.54
2447767.531 310589.97   770.78784   1.41    WIL-59  790.54
2447767.531 310589.97   770.2696    1.17    WIL-59  790.54
2447767.531 310589.97   769.7448    0.89    WIL-59  790.54
2447767.531 310589.97   769.6792    0.8 WIL-59  790.54
2447767.531 310589.97   769.23968   1.05    WIL-59  790.54
2447767.531 310589.97   768.78048   0.99    WIL-59  790.54
2447767.531 310589.97   768.29832   0.68    WIL-59  790.54
2447767.531 310589.97   767.84896   0.87    WIL-59  790.54
2447767.531 310589.97   767.38976   0.94    WIL-59  790.54
2447767.531 310589.97   766.93384   1.05    WIL-59  790.54
2447767.531 310589.97   766.47464   0.94    WIL-59  790.54
2447767.531 310589.97   766.01544   0.93    WIL-59  790.54
```

```
2447767.531 310589.97   765.52344   0.84    WIL-59  790.54
2447767.531 310589.97   765.01504   1.05    WIL-59  790.54
2447767.531 310589.97   764.5624    0.9 WIL-59  790.54
2447767.531 310589.97   764.1032    0.86    WIL-59  790.54
2447767.531 310589.97   763.64072   0.97    WIL-59  790.54
2447767.531 310589.97   763.18152   0.98    WIL-59  790.54
2447767.531 310589.97   762.71576   0.99    WIL-59  790.54
2447767.531 310589.97   762.22048   1.12    WIL-59  790.54
2447767.531 310589.97   761.71864   1.21    WIL-59  790.54
2447767.531 310589.97   761.266 1.14    WIL-59  790.54
2447767.531 310589.97   760.80352   1   WIL-59  790.54
2447767.531 310589.97   760.34432   1.01    WIL-59  790.54
2447767.531 310589.97   759.87856   1.29    WIL-59  790.54
2447767.531 310589.97   759.4128    1.18    WIL-59  790.54
2447767.531 310589.97   758.91424   1.08    WIL-59  790.54
2447767.531 310589.97   758.41568   0.88    WIL-59  790.54
2447767.531 310589.97   757.94336   1.1 WIL-59  790.54
2447767.531 310589.97   757.45792   1.22    WIL-59  790.54
2447767.531 310589.97   756.93968   1.12    WIL-59  790.54
2447767.531 310589.97   756.41816   0.98    WIL-59  790.54
2447767.531 310589.97   755.9852    1.37    WIL-59  790.54
2447767.531 310589.97   755.53912   1   WIL-59  790.54
2447767.531 310589.97   755.08976   0.96    WIL-59  790.54
2447767.531 310589.97   754.6076    1.08    WIL-59  790.54
2447767.531 310589.97   754.15496   1.09    WIL-59  790.54
2447767.531 310589.97   753.66624   1.1 WIL-59  790.54
2447767.531 310589.97   753.21032   1.09    WIL-59  790.54
2447767.531 310589.97   752.72488   1.01    WIL-59  790.54
2447767.531 310589.97   752.30176   1.22    WIL-59  790.54
2447756.872 310553.148  789.279 1.34    WIL-60  789.279
2447756.872 310553.148  788.82636   0.66    WIL-60  789.279
2447756.872 310553.148  788.33764   0.57    WIL-60  789.279
2447756.872 310553.148  787.86204   1.82    WIL-60  789.279
2447756.872 310553.148  787.40284   2.21    WIL-60  789.279
2447756.872 310553.148  786.95348   1.46    WIL-60  789.279
2447756.872 310553.148  786.52052   1.72    WIL-60  789.279
2447756.872 310553.148  786.04164   1.91    WIL-60  789.279
2447756.872 310553.148  785.56276   2.31    WIL-60  789.279
2447756.872 310553.148  785.0806    1.56    WIL-60  789.279
2447756.872 310553.148  784.5886    2.02    WIL-60  789.279
2447756.872 310553.148  784.09988   1.87    WIL-60  789.279
2447756.872 310553.148  783.62428   2.54    WIL-60  789.279
2447756.872 310553.148  783.14868   3.5 WIL-60  789.279
2447756.872 310553.148  782.69932   3.62    WIL-60  789.279
2447756.872 310553.148  782.24668   9.75    WIL-60  789.279
2447756.872 310553.148  781.76124   8.48    WIL-60  789.279
2447756.872 310553.148  781.30204   7.48    WIL-60  789.279
2447756.872 310553.148  780.84612   7.73    WIL-60  789.279
2447756.872 310553.148  780.41316   9.13    WIL-60  789.279
2447756.872 310553.148  779.94412   10.23   WIL-60  789.279
2447756.872 310553.148  779.4554    24.7    WIL-60  789.279
2447756.872 310553.148  779.10116   27.88   WIL-60  789.279
2447756.872 310553.148  778.64196   9.44    WIL-60  789.279
2447756.872 310553.148  778.14012   15.87   WIL-60  789.279
2447756.872 310553.148  777.67436   16.89   WIL-60  789.279
2447756.872 310553.148  777.20532   7.52    WIL-60  789.279
2447756.872 310553.148  776.77564   10.69   WIL-60  789.279
2447756.872 310553.148  776.30004   8.83    WIL-60  789.279
2447756.872 310553.148  775.84412   13.68   WIL-60  789.279
2447756.872 310553.148  775.39476   3.28    WIL-60  789.279
2447756.872 310553.148  774.93884   3.32    WIL-60  789.279
2447756.872 310553.148  774.44684   2.74    WIL-60  789.279
2447756.872 310553.148  773.99092   3.69    WIL-60  789.279
2447756.872 310553.148  773.535 3.57    WIL-60  789.279
```

```
2447756.872 310553.148  773.08236   3.76    WIL-60  789.279
2447756.872 310553.148  772.59364   5.52    WIL-60  789.279
2447756.872 310553.148  772.13772   3.65    WIL-60  789.279
2447756.872 310553.148  771.67852   3.18    WIL-60  789.279
2447756.872 310553.148  771.21604   3.75    WIL-60  789.279
2447756.872 310553.148  770.71748   4.25    WIL-60  789.279
2447756.872 310553.148  770.19924   2.59    WIL-60  789.279
2447756.872 310553.148  769.74332   2.3 WIL-60  789.279
2447756.872 310553.148  769.27756   2.93    WIL-60  789.279
2447756.872 310553.148  768.81508   1.99    WIL-60  789.279
2447756.872 310553.148  768.34932   2.49    WIL-60  789.279
2447756.872 310553.148  767.88684   1.68    WIL-60  789.279
2447756.872 310553.148  767.42436   2.16    WIL-60  789.279
2447756.872 310553.148  766.95532   2.58    WIL-60  789.279
2447756.872 310553.148  766.49284   2.51    WIL-60  789.279
2447756.872 310553.148  766.0238    2.92    WIL-60  789.279
2447756.872 310553.148  765.55476   2.87    WIL-60  789.279
2447756.872 310553.148  765.04964   1.93    WIL-60  789.279
2447756.872 310553.148  764.5806    2.54    WIL-60  789.279
2447756.872 310553.148  764.13452   2.36    WIL-60  789.279
2447756.872 310553.148  763.63596   2.73    WIL-60  789.279
2447756.872 310553.148  763.1702    2.36    WIL-60  789.279
2447756.872 310553.148  762.66508   2.58    WIL-60  789.279
2447756.872 310553.148  762.19604   2.26    WIL-60  789.279
2447756.872 310553.148  761.72372   2.32    WIL-60  789.279
2447756.872 310553.148  761.2514    1.65    WIL-60  789.279
2447756.872 310553.148  760.72332   0.56    WIL-60  789.279
2447756.872 310553.148  760.26084   0.61    WIL-60  789.279
2447756.872 310553.148  759.78852   0.56    WIL-60  789.279
2447756.872 310553.148  759.32276   0.5 WIL-60  789.279
2447756.872 310553.148  759.21124   0.39    WIL-60  789.279
2447756.872 310553.148  758.73564   0.5 WIL-60  789.279
2447756.872 310553.148  758.26332   0.5 WIL-60  789.279
2447756.872 310553.148  757.78444   0.51    WIL-60  789.279
2447756.872 310553.148  757.31212   0.79    WIL-60  789.279
2447756.872 310553.148  756.8398    1.46    WIL-60  789.279
2447756.872 310553.148  756.36748   1.87    WIL-60  789.279
2447756.872 310553.148  755.89188   1.77    WIL-60  789.279
2447756.872 310553.148  755.413 1.65    WIL-60  789.279
2447756.872 310553.148  754.95052   1.62    WIL-60  789.279
2447756.872 310553.148  754.48148   1.88    WIL-60  789.279
2447756.872 310553.148  754.0026    2.75    WIL-60  789.279
2447756.872 310553.148  753.56964   2.1 WIL-60  789.279
2447756.872 310553.148  753.117 2.02    WIL-60  789.279
2447756.872 310553.148  752.65124   2.51    WIL-60  789.279
2447756.872 310553.148  752.1494    2.25    WIL-60  789.279
2447756.872 310553.148  751.69348   2   WIL-60  789.279
2447756.872 310553.148  751.26052   1.89    WIL-60  789.279
2447756.872 310553.148  750.82756   2.09    WIL-60  789.279
2447756.872 310553.148  750.6242    1.99    WIL-60  789.279
2447751.611 310448.289  789.364 0.33    WIL-62  789.364
2447751.611 310448.289  788.8884    1.58    WIL-62  789.364
2447751.611 310448.289  788.4128    1.17    WIL-62  789.364
2447751.611 310448.289  787.95032   1.04    WIL-62  789.364
2447751.611 310448.289  787.51736   1.19    WIL-62  789.364
2447751.611 310448.289  787.06472   1.35    WIL-62  789.364
2447751.611 310448.289  786.61864   1.12    WIL-62  789.364
2447751.611 310448.289  786.09712   1.22    WIL-62  789.364
2447751.611 310448.289  785.66088   1.28    WIL-62  789.364
2447751.611 310448.289  785.22792   1.2 WIL-62  789.364
2447751.611 310448.289  784.7884    1.26    WIL-62  789.364
2447751.611 310448.289  784.3128    1.56    WIL-62  789.364
2447751.611 310448.289  783.86344   1.33    WIL-62  789.364
2447751.611 310448.289  783.4108    1.23    WIL-62  789.364
```

```
2447751.611 310448.289  782.94832   1.13    WIL-62  789.364
2447751.611 310448.289  782.48584   1.37    WIL-62  789.364
2447751.611 310448.289  782.0004    2.1 WIL-62  789.364
2447751.611 310448.289  781.48216   1.54    WIL-62  789.364
2447751.611 310448.289  780.96392   1.35    WIL-62  789.364
2447751.611 310448.289  780.49488   1.3 WIL-62  789.364
2447751.611 310448.289  780.00616   1.49    WIL-62  789.364
2447751.611 310448.289  779.48136   1.47    WIL-62  789.364
2447751.611 310448.289  779.05168   1.57    WIL-62  789.364
2447751.611 310448.289  778.61216   1.52    WIL-62  789.364
2447751.611 310448.289  778.15296   1.15    WIL-62  789.364
2447751.611 310448.289  777.68392   0.6 WIL-62  789.364
2447751.611 310448.289  777.1952    0.86    WIL-62  789.364
2447751.611 310448.289  776.68024   0.72    WIL-62  789.364
2447751.611 310448.289  776.244 1.2 WIL-62  789.364
2447751.611 310448.289  775.77496   0.83    WIL-62  789.364
2447751.611 310448.289  775.29936   1.13    WIL-62  789.364
2447751.611 310448.289  774.82376   0.82    WIL-62  789.364
2447751.611 310448.289  774.31536   1.16    WIL-62  789.364
2447751.611 310448.289  773.83648   1.61    WIL-62  789.364
2447751.611 310448.289  773.38384   1.04    WIL-62  789.364
2447751.611 310448.289  772.89184   1.47    WIL-62  789.364
2447751.611 310448.289  772.4228    2.32    WIL-62  789.364
2447751.611 310448.289  771.94064   5.95    WIL-62  789.364
2447751.611 310448.289  771.46504   2.22    WIL-62  789.364
2447751.611 310448.289  770.98288   1.68    WIL-62  789.364
2447751.611 310448.289  770.4712    3.32    WIL-62  789.364
2447751.611 310448.289  769.97592   0.97    WIL-62  789.364
2447751.611 310448.289  769.50032   1.01    WIL-62  789.364
2447751.611 310448.289  769.02144   0.79    WIL-62  789.364
2447751.611 310448.289  768.53928   1.3 WIL-62  789.364
2447751.611 310448.289  768.05384   1.29    WIL-62  789.364
2447751.611 310448.289  767.52904   1.3 WIL-62  789.364
2447751.611 310448.289  767.0436    1.34    WIL-62  789.364
2447751.611 310448.289  766.52536   1.07    WIL-62  789.364
2447751.611 310448.289  766.08912   1.35    WIL-62  789.364
2447751.611 310448.289  765.59384   1.18    WIL-62  789.364
2447751.611 310448.289  765.092 1.46    WIL-62  789.364
2447751.611 310448.289  764.64264   1.14    WIL-62  789.364
2447751.611 310448.289  764.13752   1.39    WIL-62  789.364
2447751.611 310448.289  763.69144   1.38    WIL-62  789.364
2447751.611 310448.289  763.25192   1.63    WIL-62  789.364
2447751.611 310448.289  763.06168   1.53    WIL-62  789.364
2447706.322 310428.054  788.85  1.66    WIL-63  788.85
2447706.322 310428.054  788.44984   1.38    WIL-63  788.85
2447616.927 310468.932  788.821 0.73    WIL-64  788.821
2447616.927 310468.932  788.34868   0.42    WIL-64  788.821
2447616.927 310468.932  787.8862    0.47    WIL-64  788.821
2447616.927 310468.932  787.41716   0.3 WIL-64  788.821
2447616.927 310468.932  786.95796   0.67    WIL-64  788.821
2447616.927 310468.932  786.525 0.93    WIL-64  788.821
2447616.927 310468.932  786.08876   2.71    WIL-64  788.821
2447616.927 310468.932  785.623 1.46    WIL-64  788.821
2447616.927 310468.932  785.19332   1.15    WIL-64  788.821
2447616.927 310468.932  784.8686    0.54    WIL-64  788.821
2447616.927 310468.932  784.42908   1.57    WIL-64  788.821
2447616.927 310468.932  783.95348   8.39    WIL-64  788.821
2447616.927 310468.932  783.51068   20.35   WIL-64  788.821
2447616.927 310468.932  783.05476   34.92   WIL-64  788.821
2447616.927 310468.932  782.98588   42.84   WIL-64  788.821
2447616.927 310468.932  782.4742    12.34   WIL-64  788.821
2447616.927 310468.932  782.00188   13.76   WIL-64  788.821
2447616.927 310468.932  781.523 23.22   WIL-64  788.821
2447616.927 310468.932  781.05068   9.83    WIL-64  788.821
```

```
2447616.927 310468.932  780.5718    14.7    WIL-64  788.821
2447616.927 310468.932  780.10276   7.79    WIL-64  788.821
2447616.927 310468.932  779.64356   2.76    WIL-64  788.821
2447616.927 310468.932  779.17124   1.97    WIL-64  788.821
2447616.927 310468.932  778.69892   9.44    WIL-64  788.821
2447616.927 310468.932  778.22004   3.1 WIL-64  788.821
2447616.927 310468.932  777.73788   5.33    WIL-64  788.821
2447616.927 310468.932  777.22292   3   WIL-64  788.821
2447616.927 310468.932  776.72436   2.84    WIL-64  788.821
2447616.927 310468.932  776.24876   2.47    WIL-64  788.821
2447616.927 310468.932  775.88796   1.14    WIL-64  788.821
2447616.927 310468.932  775.40252   12.77   WIL-64  788.821
2447616.927 310468.932  775.21228   19.21   WIL-64  788.821
2447616.927 310468.932  774.7006    2.37    WIL-64  788.821
2447616.927 310468.932  774.42836   1.11    WIL-64  788.821
2447616.927 310468.932  773.98884   6.61    WIL-64  788.821
2447616.927 310468.932  773.487 3.75    WIL-64  788.821
2447616.927 310468.932  772.96876   12.56   WIL-64  788.821
2447616.927 310468.932  772.53252   15.07   WIL-64  788.821
2447616.927 310468.932  772.0602    10.47   WIL-64  788.821
2447616.927 310468.932  771.62396   12.85   WIL-64  788.821
2447616.927 310468.932  771.17788   16.66   WIL-64  788.821
2447616.927 310468.932  770.70556   5.71    WIL-64  788.821
2447616.927 310468.932  770.22668   19.24   WIL-64  788.821
2447616.927 310468.932  769.78716   8.9 WIL-64  788.821
2447616.927 310468.932  769.29844   2.1 WIL-64  788.821
2447616.927 310468.932  768.85236   21.29   WIL-64  788.821
2447616.927 310468.932  768.38332   22.82   WIL-64  788.821
2447616.927 310468.932  767.94708   28.29   WIL-64  788.821
2447616.927 310468.932  767.47148   19.65   WIL-64  788.821
2447616.927 310468.932  766.96308   29.68   WIL-64  788.821
2447616.927 310468.932  766.49404   3.29    WIL-64  788.821
2447616.927 310468.932  766.01844   6.91    WIL-64  788.821
2447616.927 310468.932  765.75276   17.48   WIL-64  788.821
2447252.219 309732.996  780.874 1.8 WIL-65  780.874
2447252.219 309732.996  780.44104   2.16    WIL-65  780.874
2447252.219 309732.996  780.0048    2.21    WIL-65  780.874
2447252.219 309732.996  779.53904   1.92    WIL-65  780.874
2447252.219 309732.996  779.10936   2   WIL-65  780.874
2447252.219 309732.996  778.67312   2.03    WIL-65  780.874
2447252.219 309732.996  778.24344   1.61    WIL-65  780.874
2447252.219 309732.996  777.78424   1.55    WIL-65  780.874
2447252.219 309732.996  777.3152    1.56    WIL-65  780.874
2447252.219 309732.996  776.81992   1.43    WIL-65  780.874
2447252.219 309732.996  776.37056   1.43    WIL-65  780.874
2447252.219 309732.996  775.89496   1.54    WIL-65  780.874
2447252.219 309732.996  775.40296   1.59    WIL-65  780.874
2447252.219 309732.996  774.94376   1.45    WIL-65  780.874
2447252.219 309732.996  774.50096   1.4 WIL-65  780.874
2447252.219 309732.996  774.04832   10.95   WIL-65  780.874
2447252.219 309732.996  773.55632   12.87   WIL-65  780.874
2447252.219 309732.996  773.10368   5.39    WIL-65  780.874
2447252.219 309732.996  772.6248    13.36   WIL-65  780.874
2447252.219 309732.996  772.3952    18.32   WIL-65  780.874
2447252.219 309732.996  771.95568   15.52   WIL-65  780.874
2447252.219 309732.996  771.48664   5.21    WIL-65  780.874
2447252.219 309732.996  771.04056   3.02    WIL-65  780.874
2447252.219 309732.996  770.5912    3.02    WIL-65  780.874
2447252.219 309732.996  770.13856   2.13    WIL-65  780.874
2447252.219 309732.996  769.68592   5.65    WIL-65  780.874
2447252.219 309732.996  769.23656   2.85    WIL-65  780.874
2447252.219 309732.996  768.7216    5.74    WIL-65  780.874
2447252.219 309732.996  768.26896   2.77    WIL-65  780.874
2447252.219 309732.996  767.75728   4.55    WIL-65  780.874
```

```
2447252.219 309732.996  767.2948    4.49    WIL-65  780.874
2447252.219 309732.996  766.82904   2.09    WIL-65  780.874
2447252.219 309732.996  766.35672   1.95    WIL-65  780.874
2447252.219 309732.996  765.9172    1.61    WIL-65  780.874
2447252.219 309732.996  765.41536   1.49    WIL-65  780.874
2447252.219 309732.996  765.35632   1.05    WIL-65  780.874
2447252.219 309732.996  764.84792   2.19    WIL-65  780.874
2447252.219 309732.996  764.40512   1.43    WIL-65  780.874
2447252.219 309732.996  763.9   1.86    WIL-65  780.874
2447252.219 309732.996  763.44736   2.5 WIL-65  780.874
2447252.219 309732.996  762.99144   3.12    WIL-65  780.874
2447252.219 309732.996  762.54864   3.43    WIL-65  780.874
2447252.219 309732.996  762.11568   2.22    WIL-65  780.874
2447252.219 309732.996  761.66304   4.02    WIL-65  780.874
2447252.219 309732.996  761.14808   1.84    WIL-65  780.874
2447252.219 309732.996  760.6856    2.86    WIL-65  780.874
2447252.219 309732.996  760.24936   1.45    WIL-65  780.874
2447252.219 309732.996  759.7836    1.95    WIL-65  780.874
2447252.219 309732.996  759.3244    2.65    WIL-65  780.874
2447252.219 309732.996  758.8324    2.26    WIL-65  780.874
2447252.219 309732.996  758.40272   2.87    WIL-65  780.874
2447252.219 309732.996  757.95664   2.37    WIL-65  780.874
2447252.219 309732.996  757.50072   2.18    WIL-65  780.874
2447252.219 309732.996  757.03824   3.45    WIL-65  780.874
2447252.219 309732.996  756.57576   5.11    WIL-65  780.874
2447252.219 309732.996  756.11328   5.15    WIL-65  780.874
2447252.219 309732.996  755.65408   4.38    WIL-65  780.874
2447252.219 309732.996  755.15552   4.79    WIL-65  780.874
2447252.219 309732.996  754.64384   3.08    WIL-65  780.874
2447252.219 309732.996  754.18464   2.71    WIL-65  780.874
2447252.219 309732.996  753.72544   2.74    WIL-65  780.874
2447252.219 309732.996  753.2892    1.72    WIL-65  780.874
2447252.219 309732.996  752.83  1.88    WIL-65  780.874
2447252.219 309732.996  752.3872    1.76    WIL-65  780.874
2447252.219 309732.996  751.9444    2.16    WIL-65  780.874
2447252.219 309732.996  751.47208   1.85    WIL-65  780.874
2447252.219 309732.996  751.026 2   WIL-65  780.874
2447252.219 309732.996  750.54712   2.19    WIL-65  780.874
2447252.219 309732.996  750.06824   1.56    WIL-65  780.874
2447252.219 309732.996  749.59264   1.4 WIL-65  780.874
2447252.219 309732.996  749.14984   1.41    WIL-65  780.874
2447252.219 309732.996  748.63816   1.48    WIL-65  780.874
2447252.219 309732.996  748.1724    1.66    WIL-65  780.874
2447252.219 309732.996  747.67384   1.85    WIL-65  780.874
2447252.219 309732.996  747.21136   1.71    WIL-65  780.874
2447252.219 309732.996  746.81448   1.57    WIL-65  780.874
2447281.584 309687.898  781.414 1.51    WIL-66  781.414
2447281.584 309687.898  780.9548    1.45    WIL-66  781.414
2447281.584 309687.898  780.50544   1.02    WIL-66  781.414
2447281.584 309687.898  779.99376   1.08    WIL-66  781.414
2447281.584 309687.898  779.54112   1.12    WIL-66  781.414
2447281.584 309687.898  779.02288   0.94    WIL-66  781.414
2447281.584 309687.898  778.56368   0.88    WIL-66  781.414
2447281.584 309687.898  778.07168   0.91    WIL-66  781.414
2447281.584 309687.898  777.57312   0.95    WIL-66  781.414
2447281.584 309687.898  777.05816   0.93    WIL-66  781.414
2447281.584 309687.898  776.57272   1.07    WIL-66  781.414
2447281.584 309687.898  776.05776   1.5 WIL-66  781.414
2447281.584 309687.898  775.53624   1.37    WIL-66  781.414
2447281.584 309687.898  775.02128   1.45    WIL-66  781.414
2447281.584 309687.898  774.58504   1.42    WIL-66  781.414
2447281.584 309687.898  774.1488    1.32    WIL-66  781.414
2447281.584 309687.898  773.62728   1.33    WIL-66  781.414
2447281.584 309687.898  773.11232   1.09    WIL-66  781.414
```

```
2447281.584 309687.898  772.60392   0.97    WIL-66  781.414
2447281.584 309687.898  772.16112   0.93    WIL-66  781.414
2447281.584 309687.898  771.66912   1.02    WIL-66  781.414
2447281.584 309687.898  771.1968    0.97    WIL-66  781.414
2447281.584 309687.898  770.754 1.17    WIL-66  781.414
2447281.584 309687.898  770.31776   1.21    WIL-66  781.414
2447281.584 309687.898  769.87168   1.36    WIL-66  781.414
2447281.584 309687.898  769.43216   1.24    WIL-66  781.414
2447281.584 309687.898  768.98936   1.22    WIL-66  781.414
2447281.584 309687.898  768.53344   1.2 WIL-66  781.414
2447281.584 309687.898  768.0808    1.2 WIL-66  781.414
2447281.584 309687.898  767.59536   1.15    WIL-66  781.414
2447281.584 309687.898  767.15256   1.04    WIL-66  781.414
2447281.584 309687.898  766.70648   1.61    WIL-66  781.414
2447281.584 309687.898  766.26368   1.06    WIL-66  781.414
2447281.584 309687.898  765.82744   0.99    WIL-66  781.414
2447281.584 309687.898  765.35184   0.94    WIL-66  781.414
2447281.584 309687.898  764.8992    0.87    WIL-66  781.414
2447281.584 309687.898  764.44328   1.87    WIL-66  781.414
2447281.584 309687.898  763.99064   1.66    WIL-66  781.414
2447281.584 309687.898  763.49864   1.05    WIL-66  781.414
2447281.584 309687.898  763.046 1.34    WIL-66  781.414
2447281.584 309687.898  762.59008   1.5 WIL-66  781.414
2447281.584 309687.898  762.09808   3.87    WIL-66  781.414
2447281.584 309687.898  761.64544   1.34    WIL-66  781.414
2447281.584 309687.898  761.15672   1.1 WIL-66  781.414
2447281.584 309687.898  760.70408   1.27    WIL-66  781.414
2447281.584 309687.898  760.24488   1.32    WIL-66  781.414
2447281.584 309687.898  759.78896   1.21    WIL-66  781.414
2447281.584 309687.898  759.32976   1.1 WIL-66  781.414
2447281.584 309687.898  758.86072   1.14    WIL-66  781.414
2447281.584 309687.898  758.40152   1.08    WIL-66  781.414
2447281.584 309687.898  757.93576   1.27    WIL-66  781.414
2447281.584 309687.898  757.47328   1.59    WIL-66  781.414
2447281.584 309687.898  756.97472   1.87    WIL-66  781.414
2447281.584 309687.898  756.51224   1.01    WIL-66  781.414
2447281.584 309687.898  756.05304   0.93    WIL-66  781.414
2447281.584 309687.898  755.55776   0.87    WIL-66  781.414
2447281.584 309687.898  755.08872   0.9 WIL-66  781.414
2447281.584 309687.898  754.58688   0.85    WIL-66  781.414
2447281.584 309687.898  754.11456   1.12    WIL-66  781.414
2447281.584 309687.898  753.64552   1.08    WIL-66  781.414
2447281.584 309687.898  753.17648   1.67    WIL-66  781.414
2447281.584 309687.898  752.68448   1.74    WIL-66  781.414
2447281.584 309687.898  752.18592   1.77    WIL-66  781.414
2447281.584 309687.898  751.71688   1.8 WIL-66  781.414
2447281.584 309687.898  751.24128   1.8 WIL-66  781.414
2447281.584 309687.898  750.76568   1.06    WIL-66  781.414
2447281.584 309687.898  750.29008   1.17    WIL-66  781.414
2447281.584 309687.898  749.78168   0.84    WIL-66  781.414
2447281.584 309687.898  749.3192    1   WIL-66  781.414
2447281.584 309687.898  748.85016   0.73    WIL-66  781.414
2447281.584 309687.898  748.37456   0.64    WIL-66  781.414
2447281.584 309687.898  747.90552   0.72    WIL-66  781.414
2447281.584 309687.898  747.39056   0.88    WIL-66  781.414
2447281.584 309687.898  746.91496   1.22    WIL-66  781.414
2447281.584 309687.898  746.44264   1.14    WIL-66  781.414
2447281.584 309687.898  746.30816   1.14    WIL-66  781.414
2447318.905 309717.207  779.58  1.44    WIL-67  779.58
2447318.905 309717.207  779.06176   1.06    WIL-67  779.58
2447318.905 309717.207  778.61568   1.24    WIL-67  779.58
2447318.905 309717.207  778.14664   1.26    WIL-67  779.58
2447318.905 309717.207  777.70056   1.22    WIL-67  779.58
2447318.905 309717.207  777.21512   1.14    WIL-67  779.58
```

```
2447318.905 309717.207  776.71328   1.16    WIL-67  779.58
2447318.905 309717.207  776.23768   1.04    WIL-67  779.58
2447318.905 309717.207  775.726 1.1 WIL-67  779.58
2447318.905 309717.207  775.21104   1.21    WIL-67  779.58
2447318.905 309717.207  774.69608   0.82    WIL-67  779.58
2447318.905 309717.207  774.2172    0.84    WIL-67  779.58
2447318.905 309717.207  773.73504   0.73    WIL-67  779.58
2447318.905 309717.207  773.266 1.04    WIL-67  779.58
2447318.905 309717.207  772.7576    1.11    WIL-67  779.58
2447318.905 309717.207  772.25248   1.12    WIL-67  779.58
2447318.905 309717.207  771.77032   1.31    WIL-67  779.58
2447318.905 309717.207  771.25864   0.91    WIL-67  779.58
2447318.905 309717.207  770.7404    0.95    WIL-67  779.58
2447318.905 309717.207  770.25496   0.78    WIL-67  779.58
2447318.905 309717.207  769.822 0.75    WIL-67  779.58
2447318.905 309717.207  769.3792    0.7 WIL-67  779.58
2447318.905 309717.207  768.93968   0.7 WIL-67  779.58
2447318.905 309717.207  768.49688   0.88    WIL-67  779.58
2447318.905 309717.207  768.0508    0.97    WIL-67  779.58
2447318.905 309717.207  767.608 0.97    WIL-67  779.58
2447318.905 309717.207  767.14224   1.72    WIL-67  779.58
2447318.905 309717.207  766.69944   1.05    WIL-67  779.58
2447318.905 309717.207  766.25664   1.31    WIL-67  779.58
2447318.905 309717.207  765.81056   1.24    WIL-67  779.58
2447318.905 309717.207  765.3284    1.2 WIL-67  779.58
2447318.905 309717.207  764.79048   1.34    WIL-67  779.58
2447318.905 309717.207  764.33128   1.57    WIL-67  779.58
2447318.905 309717.207  763.89176   1.02    WIL-67  779.58
2447318.905 309717.207  763.3932    1.02    WIL-67  779.58
2447318.905 309717.207  762.94056   0.89    WIL-67  779.58
2447318.905 309717.207  762.4912    0.95    WIL-67  779.58
2447318.905 309717.207  762.03856   2.5 WIL-67  779.58
2447318.905 309717.207  761.54984   1.98    WIL-67  779.58
2447318.905 309717.207  761.1136    2.53    WIL-67  779.58
2447318.905 309717.207  760.63144   2.17    WIL-67  779.58
2447318.905 309717.207  760.18208   1.9 WIL-67  779.58
2447318.905 309717.207  759.72616   1.53    WIL-67  779.58
2447318.905 309717.207  759.26696   1.23    WIL-67  779.58
2447318.905 309717.207  758.81432   1.35    WIL-67  779.58
2447318.905 309717.207  758.3256    0.99    WIL-67  779.58
2447318.905 309717.207  757.8172    1.67    WIL-67  779.58
2447318.905 309717.207  757.36784   1.67    WIL-67  779.58
2447318.905 309717.207  756.91192   2.81    WIL-67  779.58
2447318.905 309717.207  756.41992   6.43    WIL-67  779.58
2447318.905 309717.207  755.95744   1.74    WIL-67  779.58
2447318.905 309717.207  755.50152   2.36    WIL-67  779.58
2447318.905 309717.207  755.03904   1.55    WIL-67  779.58
2447318.905 309717.207  754.59296   2.07    WIL-67  779.58
2447318.905 309717.207  754.10424   1.44    WIL-67  779.58
2447318.905 309717.207  753.64504   1.34    WIL-67  779.58
2447318.905 309717.207  753.18256   1.5 WIL-67  779.58
2447318.905 309717.207  752.72336   1.42    WIL-67  779.58
2447318.905 309717.207  752.2576    1.15    WIL-67  779.58
2447318.905 309717.207  751.79512   1.29    WIL-67  779.58
2447318.905 309717.207  751.35232   1.07    WIL-67  779.58
2447318.905 309717.207  750.91936   1.22    WIL-67  779.58
2447318.905 309717.207  750.4208    1.08    WIL-67  779.58
2447318.905 309717.207  749.95832   1.2 WIL-67  779.58
2447318.905 309717.207  749.49584   1.21    WIL-67  779.58
2447318.905 309717.207  749.03336   1.15    WIL-67  779.58
2447318.905 309717.207  748.5676    1.27    WIL-67  779.58
2447318.905 309717.207  748.1084    1.28    WIL-67  779.58
2447318.905 309717.207  747.6328    1.45    WIL-67  779.58
2447318.905 309717.207  747.1736    1.55    WIL-67  779.58
```

```
2447318.905 309717.207  746.70784   1.47    WIL-67  779.58
2447318.905 309717.207  746.206 1.54    WIL-67  779.58
2447318.905 309717.207  745.74352   1.64    WIL-67  779.58
2447318.905 309717.207  745.27776   1.74    WIL-67  779.58
2447318.905 309717.207  744.80872   1.77    WIL-67  779.58
2447318.905 309717.207  744.60536   1.74    WIL-67  779.58
2447121.565 309795.801  782.08816   1.48    WIL-68  782.098
2447121.565 309795.801  781.63552   1.08    WIL-68  782.098
2447121.565 309795.801  781.13696   1.03    WIL-68  782.098
2447121.565 309795.801  780.64824   1.17    WIL-68  782.098
2447121.565 309795.801  780.212 1.37    WIL-68  782.098
2447121.565 309795.801  779.75936   1.16    WIL-68  782.098
2447121.565 309795.801  779.30344   0.96    WIL-68  782.098
2447121.565 309795.801  778.8016    0.72    WIL-68  782.098
2447121.565 309795.801  778.29648   1   WIL-68  782.098
2447121.565 309795.801  777.79792   0.7 WIL-68  782.098
2447121.565 309795.801  777.33544   1.06    WIL-68  782.098
2447121.565 309795.801  776.87296   1.02    WIL-68  782.098
2447121.565 309795.801  776.42032   1.15    WIL-68  782.098
2447121.565 309795.801  775.9644    1.01    WIL-68  782.098
2447121.565 309795.801  775.48224   0.97    WIL-68  782.098
2447121.565 309795.801  775.00008   1.01    WIL-68  782.098
2447121.565 309795.801  774.51136   1.13    WIL-68  782.098
2447121.565 309795.801  774.02264   1.06    WIL-68  782.098
2447121.565 309795.801  773.5372    1.09    WIL-68  782.098
2447121.565 309795.801  773.05832   1.03    WIL-68  782.098
2447121.565 309795.801  772.60896   1.02    WIL-68  782.098
2447121.565 309795.801  772.12024   1.04    WIL-68  782.098
2447121.565 309795.801  771.66432   1.1 WIL-68  782.098
2447121.565 309795.801  771.20512   0.93    WIL-68  782.098
2447121.565 309795.801  770.74592   0.98    WIL-68  782.098
2447121.565 309795.801  770.28672   0.85    WIL-68  782.098
2447121.565 309795.801  769.8472    1.05    WIL-68  782.098
2447121.565 309795.801  769.3552    0.91    WIL-68  782.098
2447121.565 309795.801  768.88944   0.92    WIL-68  782.098
2447121.565 309795.801  768.38104   2.97    WIL-68  782.098
2447121.565 309795.801  767.912 2.56    WIL-68  782.098
2447121.565 309795.801  767.43312   3.06    WIL-68  782.098
2447121.565 309795.801  766.9608    2.27    WIL-68  782.098
2447121.565 309795.801  766.4852    1.94    WIL-68  782.098
2447121.565 309795.801  766.00632   2.74    WIL-68  782.098
2447121.565 309795.801  765.534 3.17    WIL-68  782.098
2447121.565 309795.801  765.06168   3.77    WIL-68  782.098
2447121.565 309795.801  764.54672   3.09    WIL-68  782.098
2447121.565 309795.801  764.07112   2.36    WIL-68  782.098
2447121.565 309795.801  763.60208   2.77    WIL-68  782.098
2447121.565 309795.801  763.09368   3.72    WIL-68  782.098
2447121.565 309795.801  762.60824   3.18    WIL-68  782.098
2447121.565 309795.801  762.13264   3.1 WIL-68  782.098
2447121.565 309795.801  761.65376   3.87    WIL-68  782.098
2447121.565 309795.801  761.20768   3.24    WIL-68  782.098
2447121.565 309795.801  760.72552   3.13    WIL-68  782.098
2447121.565 309795.801  760.24992   2.83    WIL-68  782.098
2447121.565 309795.801  759.77104   0.91    WIL-68  782.098
2447121.565 309795.801  759.29216   0.8 WIL-68  782.098
2447121.565 309795.801  758.81656   0.82    WIL-68  782.098
2447121.565 309795.801  758.30488   0.97    WIL-68  782.098
2447121.565 309795.801  757.826 0.94    WIL-68  782.098
2447121.565 309795.801  757.38648   1.34    WIL-68  782.098
2447121.565 309795.801  756.87152   2.1 WIL-68  782.098
2447121.565 309795.801  756.34672   4.01    WIL-68  782.098
2447121.565 309795.801  755.87112   2.92    WIL-68  782.098
2447121.565 309795.801  755.39224   2.05    WIL-68  782.098
2447121.565 309795.801  754.92648   2.24    WIL-68  782.098
```

```
2447121.565 309795.801  754.45416   2.69    WIL-68  782.098
2447121.565 309795.801  753.95232   3.5 WIL-68  782.098
2447121.565 309795.801  753.45704   3.13    WIL-68  782.098
2447121.565 309795.801  752.97488   4.88    WIL-68  782.098
2447121.565 309795.801  752.48944   5.32    WIL-68  782.098
2447121.565 309795.801  752.00072   3.03    WIL-68  782.098
2447121.565 309795.801  751.51528   2.05    WIL-68  782.098
2447121.565 309795.801  751.02656   3.74    WIL-68  782.098
2447121.565 309795.801  750.50832   3.64    WIL-68  782.098
2447121.565 309795.801  750.02944   3.5 WIL-68  782.098
2447121.565 309795.801  749.55056   3.68    WIL-68  782.098
2447121.565 309795.801  749.0684    4.03    WIL-68  782.098
2447121.565 309795.801  748.58952   4.34    WIL-68  782.098
2447121.565 309795.801  748.11064   5.23    WIL-68  782.098
2447121.565 309795.801  747.63504   4.11    WIL-68  782.098
2447121.565 309795.801  747.1004    4   WIL-68  782.098
2447121.565 309795.801  746.6248    3.94    WIL-68  782.098
2447121.565 309795.801  746.14264   3.6 WIL-68  782.098
2447121.565 309795.801  745.65064   3.11    WIL-68  782.098
2447121.565 309795.801  745.16192   3.35    WIL-68  782.098
2447121.565 309795.801  744.6732    2.23    WIL-68  782.098
2447121.565 309795.801  744.14512   3.29    WIL-68  782.098
2447121.565 309795.801  743.65312   2.47    WIL-68  782.098
2447121.565 309795.801  743.5744    3.9 WIL-68  782.098
2447096.461 309770.247  781.305 1.87    WIL-69  781.305
2447096.461 309770.247  780.84908   1.46    WIL-69  781.305
2447096.461 309770.247  780.40956   1.4 WIL-69  781.305
2447096.461 309770.247  779.93396   1.33    WIL-69  781.305
2447096.461 309770.247  779.45836   1.39    WIL-69  781.305
2447096.461 309770.247  778.93028   1.34    WIL-69  781.305
2447096.461 309770.247  778.42188   1.33    WIL-69  781.305
2447096.461 309770.247  777.95612   1.27    WIL-69  781.305
2447096.461 309770.247  777.48708   1.38    WIL-69  781.305
2447096.461 309770.247  777.0082    1.33    WIL-69  781.305
2447096.461 309770.247  776.52932   1.2 WIL-69  781.305
2447096.461 309770.247  776.05372   1.21    WIL-69  781.305
2447096.461 309770.247  775.50268   1.27    WIL-69  781.305
2447096.461 309770.247  774.98772   1.23    WIL-69  781.305
2447096.461 309770.247  774.51212   1.27    WIL-69  781.305
2447096.461 309770.247  774.02996   1.23    WIL-69  781.305
2447096.461 309770.247  773.5478    1.4 WIL-69  781.305
2447096.461 309770.247  773.06236   1.35    WIL-69  781.305
2447096.461 309770.247  772.5802    1.34    WIL-69  781.305
2447096.461 309770.247  772.15052   1.27    WIL-69  781.305
2447096.461 309770.247  771.67492   1.34    WIL-69  781.305
2447096.461 309770.247  771.19276   1.35    WIL-69  781.305
2447096.461 309770.247  770.73356   1.27    WIL-69  781.305
2447096.461 309770.247  770.28092   1.16    WIL-69  781.305
2447096.461 309770.247  769.83484   1.25    WIL-69  781.305
2447096.461 309770.247  769.38548   1.1 WIL-69  781.305
2447096.461 309770.247  768.9394    1.29    WIL-69  781.305
2447096.461 309770.247  768.46708   1.29    WIL-69  781.305
2447096.461 309770.247  768.02428   1.31    WIL-69  781.305
2447096.461 309770.247  767.57164   1.58    WIL-69  781.305
2447096.461 309770.247  767.12556   1.48    WIL-69  781.305
2447096.461 309770.247  766.6762    1.49    WIL-69  781.305
2447096.461 309770.247  766.22684   1.47    WIL-69  781.305
2447096.461 309770.247  765.68892   1.46    WIL-69  781.305
2447096.461 309770.247  765.24612   1.37    WIL-69  781.305
2447096.461 309770.247  764.80332   1.38    WIL-69  781.305
2447096.461 309770.247  764.35724   1.5 WIL-69  781.305
2447096.461 309770.247  763.91116   1.51    WIL-69  781.305
2447096.461 309770.247  763.4618    1.43    WIL-69  781.305
2447096.461 309770.247  763.02556   1.4 WIL-69  781.305
```

```
2447096.461 309770.247  762.53356   1.29    WIL-69  781.305
2447096.461 309770.247  762.04484   1.37    WIL-69  781.305
2447096.461 309770.247  761.58892   1.3 WIL-69  781.305
2447096.461 309770.247  761.09036   1.39    WIL-69  781.305
2447096.461 309770.247  760.66068   1.29    WIL-69  781.305
2447096.461 309770.247  760.18836   1.34    WIL-69  781.305
2447096.461 309770.247  759.7554    1.48    WIL-69  781.305
2447096.461 309770.247  759.28636   1.38    WIL-69  781.305
2447096.461 309770.247  758.8206    1.41    WIL-69  781.305
2447096.461 309770.247  758.38108   1.4 WIL-69  781.305
2447096.461 309770.247  757.93828   1.38    WIL-69  781.305
2447096.461 309770.247  757.50204   1.49    WIL-69  781.305
2447096.461 309770.247  757.05924   1.53    WIL-69  781.305
2447096.461 309770.247  756.61644   1.5 WIL-69  781.305
2447096.461 309770.247  756.0982    1.59    WIL-69  781.305
2447096.461 309770.247  755.66852   1.53    WIL-69  781.305
2447096.461 309770.247  755.23228   1.47    WIL-69  781.305
2447096.461 309770.247  754.79604   1.54    WIL-69  781.305
2447096.461 309770.247  754.35324   1.45    WIL-69  781.305
2447096.461 309770.247  753.87764   1.32    WIL-69  781.305
2447096.461 309770.247  753.4414    1.25    WIL-69  781.305
2447096.461 309770.247  753.00188   1.51    WIL-69  781.305
2447096.461 309770.247  752.48364   1.38    WIL-69  781.305
2447096.461 309770.247  752.0474    1.36    WIL-69  781.305
2447096.461 309770.247  751.61444   1.69    WIL-69  781.305
2447096.461 309770.247  751.18148   1.64    WIL-69  781.305
2447096.461 309770.247  750.74852   1.62    WIL-69  781.305
2447096.461 309770.247  750.29588   1.57    WIL-69  781.305
2447096.461 309770.247  749.8662    1.35    WIL-69  781.305
2447096.461 309770.247  749.40044   1.18    WIL-69  781.305
2447096.461 309770.247  748.9642    1.14    WIL-69  781.305
2447096.461 309770.247  748.53124   1.16    WIL-69  781.305
2447096.461 309770.247  748.095 1.1 WIL-69  781.305
2447096.461 309770.247  747.65876   1.01    WIL-69  781.305
2447096.461 309770.247  747.21924   1.13    WIL-69  781.305
2447096.461 309770.247  746.783 1.18    WIL-69  781.305
2447096.461 309770.247  746.41564   1.07    WIL-69  781.305
2446937.055 309815.094  782.049 2.6 WIL-70  782.049
2446937.055 309815.094  781.49796   1.14    WIL-70  782.049
2446937.055 309815.094  781.03548   0.32    WIL-70  782.049
2446937.055 309815.094  780.96988   0.27    WIL-70  782.049
2446937.055 309815.094  780.49428   0.3 WIL-70  782.049
2446937.055 309815.094  780.0318    0.32    WIL-70  782.049
2446937.055 309815.094  779.56604   0.29    WIL-70  782.049
2446937.055 309815.094  779.11012   0.39    WIL-70  782.049
2446937.055 309815.094  778.63124   0.4 WIL-70  782.049
2446937.055 309815.094  778.1458    0.34    WIL-70  782.049
2446937.055 309815.094  777.65052   0.37    WIL-70  782.049
2446937.055 309815.094  777.15852   0.38    WIL-70  782.049
2446937.055 309815.094  776.66324   0.41    WIL-70  782.049
2446937.055 309815.094  776.13188   0.52    WIL-70  782.049
2446937.055 309815.094  775.63332   0.5 WIL-70  782.049
2446937.055 309815.094  775.13148   0.47    WIL-70  782.049
2446937.055 309815.094  774.63292   0.48    WIL-70  782.049
2446937.055 309815.094  774.12452   0.42    WIL-70  782.049
2446937.055 309815.094  773.6194    0.4 WIL-70  782.049
2446937.055 309815.094  773.10772   0.41    WIL-70  782.049
2446937.055 309815.094  772.63212   0.43    WIL-70  782.049
2446937.055 309815.094  772.19588   0.46    WIL-70  782.049
2446937.055 309815.094  771.73996   0.49    WIL-70  782.049
2446937.055 309815.094  771.27092   0.43    WIL-70  782.049
2446937.055 309815.094  770.82484   0.42    WIL-70  782.049
2446937.055 309815.094  770.37876   0.48    WIL-70  782.049
2446937.055 309815.094  769.93268   0.49    WIL-70  782.049
```

```
2446937.055 309815.094  769.43412   0.54    WIL-70  782.049
2446937.055 309815.094  768.9126    1.07    WIL-70  782.049
2446937.055 309815.094  768.39436   1.09    WIL-70  782.049
2446937.055 309815.094  767.863 0.85    WIL-70  782.049
2446937.055 309815.094  767.34476   0.41    WIL-70  782.049
2446937.055 309815.094  766.82652   0.44    WIL-70  782.049
2446937.055 309815.094  766.35748   0.55    WIL-70  782.049
2446937.055 309815.094  765.91796   0.49    WIL-70  782.049
2446937.055 309815.094  765.40956   0.48    WIL-70  782.049
2446937.055 309815.094  764.89788   0.48    WIL-70  782.049
2446937.055 309815.094  764.44196   0.4 WIL-70  782.049
2446937.055 309815.094  763.97292   1.26    WIL-70  782.049
2446937.055 309815.094  763.52028   0.96    WIL-70  782.049
2446937.055 309815.094  763.05452   1.83    WIL-70  782.049
2446937.055 309815.094  762.57892   1.45    WIL-70  782.049
2446937.055 309815.094  762.12956   1.98    WIL-70  782.049
2446937.055 309815.094  761.95572   5.68    WIL-70  782.049
2446937.055 309815.094  761.47356   0.73    WIL-70  782.049
2446937.055 309815.094  761.0242    0.54    WIL-70  782.049
2446937.055 309815.094  760.75196   0.35    WIL-70  782.049
2446937.055 309815.094  760.29932   0.63    WIL-70  782.049
2446937.055 309815.094  759.84996   0.74    WIL-70  782.049
2446937.055 309815.094  759.40388   0.49    WIL-70  782.049
2446937.055 309815.094  758.95452   0.31    WIL-70  782.049
2446937.055 309815.094  758.50516   0.81    WIL-70  782.049
2446937.055 309815.094  758.01644   0.82    WIL-70  782.049
2446937.055 309815.094  757.56708   0.62    WIL-70  782.049
2446937.055 309815.094  757.11444   0.49    WIL-70  782.049
2446937.055 309815.094  756.64868   0.66    WIL-70  782.049
2446937.055 309815.094  756.19604   0.54    WIL-70  782.049
2446937.055 309815.094  755.74668   0.6 WIL-70  782.049
2446937.055 309815.094  755.29076   0.54    WIL-70  782.049
2446937.055 309815.094  754.83484   0.61    WIL-70  782.049
2446937.055 309815.094  754.37892   0.5 WIL-70  782.049
2446937.055 309815.094  753.8902    0.61    WIL-70  782.049
2446937.055 309815.094  753.41788   0.72    WIL-70  782.049
2446937.055 309815.094  752.95868   0.56    WIL-70  782.049
2446937.055 309815.094  752.49948   0.54    WIL-70  782.049
2446937.055 309815.094  752.037 0.6 WIL-70  782.049
2446937.055 309815.094  751.57124   0.59    WIL-70  782.049
2446937.055 309815.094  751.11204   0.71    WIL-70  782.049
2446937.055 309815.094  750.66268   0.65    WIL-70  782.049
2446937.055 309815.094  750.233 1.15    WIL-70  782.049
2446937.055 309815.094  749.80332   0.99    WIL-70  782.049
2446937.055 309815.094  749.31788   1.79    WIL-70  782.049
2446937.055 309815.094  748.85212   1.34    WIL-70  782.049
2446937.055 309815.094  748.38636   1.12    WIL-70  782.049
2446937.055 309815.094  747.9206    1.12    WIL-70  782.049
2446937.055 309815.094  747.45484   1.67    WIL-70  782.049
2446937.055 309815.094  747.12028   1.34    WIL-70  782.049
2446895.633 309811.408  782.47  -0.19   WIL-71  782.47
2446895.633 309811.408  782.02064   0.58    WIL-71  782.47
2446895.633 309811.408  781.568 0.39    WIL-71  782.47
2446895.633 309811.408  781.10224   0.32    WIL-71  782.47
2446895.633 309811.408  780.63976   0.32    WIL-71  782.47
2446895.633 309811.408  780.20024   0.26    WIL-71  782.47
2446895.633 309811.408  779.71808   1.11    WIL-71  782.47
2446895.633 309811.408  779.26872   0.28    WIL-71  782.47
2446895.633 309811.408  778.78656   0.31    WIL-71  782.47
2446895.633 309811.408  778.30112   0.26    WIL-71  782.47
2446895.633 309811.408  777.83536   0.19    WIL-71  782.47
2446895.633 309811.408  777.39584   0.27    WIL-71  782.47
2446895.633 309811.408  776.92352   0.24    WIL-71  782.47
2446895.633 309811.408  776.4348    0.16    WIL-71  782.47
```

```
2446895.633 309811.408  775.98216   0.04    WIL-71  782.47
2446895.633 309811.408  775.52952   0.05    WIL-71  782.47
2446895.633 309811.408  775.0736    0.09    WIL-71  782.47
2446895.633 309811.408  774.57832   0.03    WIL-71  782.47
2446895.633 309811.408  774.11256   0.03    WIL-71  782.47
2446895.633 309811.408  773.65008   0.03    WIL-71  782.47
2446895.633 309811.408  773.17448   0.07    WIL-71  782.47
2446895.633 309811.408  772.71528   0.12    WIL-71  782.47
2446895.633 309811.408  772.25608   0.06    WIL-71  782.47
2446895.633 309811.408  771.7936    -0.02   WIL-71  782.47
2446895.633 309811.408  771.33112   0.02    WIL-71  782.47
2446895.633 309811.408  770.83256   -0.02   WIL-71  782.47
2446895.633 309811.408  770.36352   0.01    WIL-71  782.47
2446895.633 309811.408  769.91416   -0.05   WIL-71  782.47
2446895.633 309811.408  769.45824   -0.05   WIL-71  782.47
2446895.633 309811.408  768.99576   0.01    WIL-71  782.47
2446895.633 309811.408  768.49064   0.03    WIL-71  782.47
2446895.633 309811.408  768.0216    0.29    WIL-71  782.47
2446895.633 309811.408  767.54928   0.45    WIL-71  782.47
2446895.633 309811.408  767.08024   0.07    WIL-71  782.47
2446895.633 309811.408  766.65056   0.09    WIL-71  782.47
2446895.633 309811.408  766.19136   1.02    WIL-71  782.47
2446895.633 309811.408  765.73216   0.35    WIL-71  782.47
2446895.633 309811.408  765.26312   0.1 WIL-71  782.47
2446895.633 309811.408  764.76128   0.02    WIL-71  782.47
2446895.633 309811.408  764.30208   -0.02   WIL-71  782.47
2446895.633 309811.408  763.81336   -0.01   WIL-71  782.47
2446895.633 309811.408  763.3476    -0.03   WIL-71  782.47
2446895.633 309811.408  762.87856   -0.04   WIL-71  782.47
2446895.633 309811.408  762.37016   -0.03   WIL-71  782.47
2446895.633 309811.408  761.89784   -0.06   WIL-71  782.47
2446895.633 309811.408  761.42224   0.14    WIL-71  782.47
2446895.633 309811.408  760.94664   -0.06   WIL-71  782.47
2446895.633 309811.408  760.43496   -0.03   WIL-71  782.47
2446895.633 309811.408  759.96264   -0.04   WIL-71  782.47
2446895.633 309811.408  759.48704   -0.03   WIL-71  782.47
2446895.633 309811.408  759.01472   0   WIL-71  782.47
2446895.633 309811.408  758.53584   -0.01   WIL-71  782.47
2446895.633 309811.408  758.02744   -0.04   WIL-71  782.47
2446895.633 309811.408  757.5092    0.01    WIL-71  782.47
2446895.633 309811.408  757.03688   0.06    WIL-71  782.47
2446895.633 309811.408  756.558 0   WIL-71  782.47
2446895.633 309811.408  756.03976   -0.02   WIL-71  782.47
2446895.633 309811.408  755.5576    -0.05   WIL-71  782.47
2446895.633 309811.408  755.07544   -0.07   WIL-71  782.47
2446895.633 309811.408  754.59656   -0.04   WIL-71  782.47
2446895.633 309811.408  754.12096   -0.03   WIL-71  782.47
2446895.633 309811.408  753.6388    0   WIL-71  782.47
2446895.633 309811.408  753.15992   -0.02   WIL-71  782.47
2446895.633 309811.408  752.64168   -0.02   WIL-71  782.47
2446895.633 309811.408  752.15624   -0.07   WIL-71  782.47
2446895.633 309811.408  751.6708    -0.05   WIL-71  782.47
2446895.633 309811.408  751.20176   0.52    WIL-71  782.47
2446895.633 309811.408  750.71632   -0.07   WIL-71  782.47
2446895.633 309811.408  750.25384   0.05    WIL-71  782.47
2446895.633 309811.408  749.7684    -0.01   WIL-71  782.47
2446895.633 309811.408  749.2436    -0.02   WIL-71  782.47
2446895.633 309811.408  748.75816   0.08    WIL-71  782.47
2446895.633 309811.408  748.26944   -0.06   WIL-71  782.47
2446895.633 309811.408  747.78072   -0.02   WIL-71  782.47
2446895.633 309811.408  747.51504   0.05    WIL-71  782.47
2447048.321 309784.881  783.312 -0.16   WIL-72  783.312
2447048.321 309784.881  782.87248   0.64    WIL-72  783.312
2447048.321 309784.881  782.3772    0.22    WIL-72  783.312
```

```
2447048.321 309784.881  781.9016    0.28    WIL-72  783.312
2447048.321 309784.881  781.45224   0.19    WIL-72  783.312
2447048.321 309784.881  780.9668    0.27    WIL-72  783.312
2447048.321 309784.881  780.53384   0.15    WIL-72  783.312
2447048.321 309784.881  780.10416   0.13    WIL-72  783.312
2447048.321 309784.881  779.6712    0.7 WIL-72  783.312
2447048.321 309784.881  779.19888   0.76    WIL-72  783.312
2447048.321 309784.881  778.75608   0.66    WIL-72  783.312
2447048.321 309784.881  778.31328   0.58    WIL-72  783.312
2447048.321 309784.881  777.86392   0.54    WIL-72  783.312
2447048.321 309784.881  777.38176   0.66    WIL-72  783.312
2447048.321 309784.881  776.92584   0.71    WIL-72  783.312
2447048.321 309784.881  776.46008   0.9 WIL-72  783.312
2447048.321 309784.881  775.96152   0.72    WIL-72  783.312
2447048.321 309784.881  775.49248   0.89    WIL-72  783.312
2447048.321 309784.881  775.02672   0.74    WIL-72  783.312
2447048.321 309784.881  774.55112   1.45    WIL-72  783.312
2447048.321 309784.881  774.08208   1.03    WIL-72  783.312
2447048.321 309784.881  773.60648   1.65    WIL-72  783.312
2447048.321 309784.881  773.09152   2.09    WIL-72  783.312
2447048.321 309784.881  772.61592   1.01    WIL-72  783.312
2447048.321 309784.881  772.13048   1.15    WIL-72  783.312
2447048.321 309784.881  771.6516    0.76    WIL-72  783.312
2447048.321 309784.881  771.19896   0.72    WIL-72  783.312
2447048.321 309784.881  770.72336   0.95    WIL-72  783.312
2447048.321 309784.881  770.2412    0.91    WIL-72  783.312
2447048.321 309784.881  769.75248   0.92    WIL-72  783.312
2447048.321 309784.881  769.2244    0.77    WIL-72  783.312
2447048.321 309784.881  768.7324    0.62    WIL-72  783.312
2447048.321 309784.881  768.24368   0.55    WIL-72  783.312
2447048.321 309784.881  767.80088   0.46    WIL-72  783.312
2447048.321 309784.881  767.31544   0.65    WIL-72  783.312
2447048.321 309784.881  766.82344   0.54    WIL-72  783.312
2447048.321 309784.881  766.33472   0.72    WIL-72  783.312
2447048.321 309784.881  765.86896   0.69    WIL-72  783.312
2447048.321 309784.881  765.40976   0.16    WIL-72  783.312
2447048.321 309784.881  764.89808   0.18    WIL-72  783.312
2447048.321 309784.881  764.42576   0.55    WIL-72  783.312
2447048.321 309784.881  763.95672   0.28    WIL-72  783.312
2447048.321 309784.881  763.46144   0.65    WIL-72  783.312
2447048.321 309784.881  762.98256   0.31    WIL-72  783.312
2447048.321 309784.881  762.51352   0.21    WIL-72  783.312
2447048.321 309784.881  762.04776   0.25    WIL-72  783.312
2447048.321 309784.881  761.54264   0.31    WIL-72  783.312
2447048.321 309784.881  761.11296   0.65    WIL-72  783.312
2447048.321 309784.881  760.6144    0.26    WIL-72  783.312
2447048.321 309784.881  760.10928   0.16    WIL-72  783.312
2447048.321 309784.881  759.60416   0.01    WIL-72  783.312
2447048.321 309784.881  759.1548    -0.02   WIL-72  783.312
2447048.321 309784.881  758.63328   -0.96   WIL-72  783.312
2447048.321 309784.881  758.20032   -0.17   WIL-72  783.312
2447048.321 309784.881  757.7444    -0.12   WIL-72  783.312
2447048.321 309784.881  757.31144   0.43    WIL-72  783.312
2447048.321 309784.881  756.87848   0.06    WIL-72  783.312
2447048.321 309784.881  756.43568   -0.23   WIL-72  783.312
2447048.321 309784.881  755.96336   0.27    WIL-72  783.312
2447048.321 309784.881  755.514 0.33    WIL-72  783.312
2447048.321 309784.881  755.06792   0.3 WIL-72  783.312
2447048.321 309784.881  754.63496   0.43    WIL-72  783.312
2447048.321 309784.881  754.19216   0.39    WIL-72  783.312
2447048.321 309784.881  753.74608   0.42    WIL-72  783.312
2447048.321 309784.881  753.29344   -0.03   WIL-72  783.312
2447048.321 309784.881  752.81128   0.44    WIL-72  783.312
2447048.321 309784.881  752.35536   0.27    WIL-72  783.312
```

```
2447048.321 309784.881  751.89944   0.43    WIL-72  783.312
2447048.321 309784.881  751.59112   0.41    WIL-72  783.312
2447032.819 309742.185  781.883 0.5 WIL-73  781.883
2447032.819 309742.185  781.75508   21.98   WIL-73  781.883
2447032.819 309742.185  781.29916   1.2 WIL-73  781.883
2447032.819 309742.185  780.85636   0.42    WIL-73  781.883
2447032.819 309742.185  780.41684   0.72    WIL-73  781.883
2447032.819 309742.185  779.9478    1   WIL-73  781.883
2447032.819 309742.185  779.47876   0.57    WIL-73  781.883
2447032.819 309742.185  778.9966    0.89    WIL-73  781.883
2447032.819 309742.185  778.51772   0.51    WIL-73  781.883
2447032.819 309742.185  777.96012   0.76    WIL-73  781.883
2447032.819 309742.185  777.52716   0.97    WIL-73  781.883
2447032.819 309742.185  777.045 1.01    WIL-73  781.883
2447032.819 309742.185  776.60548   0.92    WIL-73  781.883
2447032.819 309742.185  776.15284   1.37    WIL-73  781.883
2447032.819 309742.185  775.72316   4.14    WIL-73  781.883
2447032.819 309742.185  775.30004   9.33    WIL-73  781.883
2447032.819 309742.185  774.83428   2.98    WIL-73  781.883
2447032.819 309742.185  774.36524   5.8 WIL-73  781.883
2447032.819 309742.185  773.8962    3.3 WIL-73  781.883
2447032.819 309742.185  773.42388   2.98    WIL-73  781.883
2447032.819 309742.185  772.8958    1.24    WIL-73  781.883
2447032.819 309742.185  772.43004   0.76    WIL-73  781.883
2447032.819 309742.185  771.95444   1.97    WIL-73  781.883
2447032.819 309742.185  771.47884   1.57    WIL-73  781.883
2447032.819 309742.185  770.96716   0.98    WIL-73  781.883
2447032.819 309742.185  770.48828   0.53    WIL-73  781.883
2447032.819 309742.185  770.0094    0.51    WIL-73  781.883
2447032.819 309742.185  769.5338    0.73    WIL-73  781.883
2447032.819 309742.185  769.0582    0.65    WIL-73  781.883
2447032.819 309742.185  768.57604   0.3 WIL-73  781.883
2447032.819 309742.185  768.0906    0.57    WIL-73  781.883
2447032.819 309742.185  767.68388   3.82    WIL-73  781.883
2447032.819 309742.185  767.205 0.67    WIL-73  781.883
2447032.819 309742.185  766.71956   0.45    WIL-73  781.883
2447032.819 309742.185  766.46044   0.15    WIL-73  781.883
2447032.819 309742.185  765.97828   0.65    WIL-73  781.883
2447032.819 309742.185  765.46004   0.62    WIL-73  781.883
2447032.819 309742.185  765.15828   13.2    WIL-73  781.883
2447032.819 309742.185  764.67284   0.63    WIL-73  781.883
2447032.819 309742.185  764.14148   0.38    WIL-73  781.883
2447032.819 309742.185  763.65932   3.36    WIL-73  781.883
2447032.819 309742.185  763.37724   0.12    WIL-73  781.883
2447032.819 309742.185  762.90492   1.09    WIL-73  781.883
2447032.819 309742.185  762.83604   2.18    WIL-73  781.883
2447032.819 309742.185  762.32764   0.67    WIL-73  781.883
2447032.819 309742.185  761.85204   0.71    WIL-73  781.883
2447032.819 309742.185  761.37644   0.67    WIL-73  781.883
2447032.819 309742.185  760.89756   0.4 WIL-73  781.883
2447032.819 309742.185  760.42852   0.55    WIL-73  781.883
2447032.819 309742.185  759.97588   0.68    WIL-73  781.883
2447032.819 309742.185  759.51012   0.62    WIL-73  781.883
2447032.819 309742.185  759.06076   0.23    WIL-73  781.883
2447032.819 309742.185  758.6114    0.62    WIL-73  781.883
2447032.819 309742.185  758.16204   0.73    WIL-73  781.883
2447032.819 309742.185  757.66676   0.91    WIL-73  781.883
2447032.819 309742.185  757.21412   0.61    WIL-73  781.883
2447032.819 309742.185  756.96812   0.78    WIL-73  781.883
2447694.944 310004.18   786.365 0.17    WIL-P1-01   786.365
2447694.944 310004.18   785.91892   0.71    WIL-P1-01   786.365
2447694.944 310004.18   785.48924   0.65    WIL-P1-01   786.365
2447694.944 310004.18   785.04972   0.34    WIL-P1-01   786.365
2447694.944 310004.18   784.82996   0.66    WIL-P1-01   786.365
```

```
2447694.944 310004.18   784.643 0.02    WIL-P1-01   786.365
2447694.944 310004.18   784.5938    0.21    WIL-P1-01   786.365
2447694.944 310004.18   784.1018    0.2 WIL-P1-01   786.365
2447694.944 310004.18   783.56388   0.13    WIL-P1-01   786.365
2447694.944 310004.18   783.11452   0.18    WIL-P1-01   786.365
2447694.944 310004.18   782.63892   0.26    WIL-P1-01   786.365
2447694.944 310004.18   782.14364   0.16    WIL-P1-01   786.365
2447694.944 310004.18   781.69756   0.24    WIL-P1-01   786.365
2447694.944 310004.18   781.21868   0.07    WIL-P1-01   786.365
2447694.944 310004.18   780.72012   0.12    WIL-P1-01   786.365
2447694.944 310004.18   780.20188   0.1 WIL-P1-01   786.365
2447694.944 310004.18   779.69348   0.13    WIL-P1-01   786.365
2447694.944 310004.18   779.23756   0.07    WIL-P1-01   786.365
2447694.944 310004.18   778.7882    0.24    WIL-P1-01   786.365
2447694.944 310004.18   778.30932   0.23    WIL-P1-01   786.365
2447694.944 310004.18   777.99444   0.36    WIL-P1-01   786.365
2447694.944 310004.18   777.56476   0.19    WIL-P1-01   786.365
2447694.944 310004.18   777.427 0.02    WIL-P1-01   786.365
2447694.944 310004.18   776.94484   0.16    WIL-P1-01   786.365
2447694.944 310004.18   776.47908   0.16    WIL-P1-01   786.365
2447694.944 310004.18   776.04284   0.28    WIL-P1-01   786.365
2447694.944 310004.18   775.5738    0.42    WIL-P1-01   786.365
2447694.944 310004.18   775.14412   0.3 WIL-P1-01   786.365
2447694.944 310004.18   774.69804   0.21    WIL-P1-01   786.365
2447694.944 310004.18   774.30444   0.49    WIL-P1-01   786.365
2447570.28  309966.71   788.972 0.64    WIL-P1-02   788.972
2447570.28  309966.71   788.4636    0.67    WIL-P1-02   788.972
2447570.28  309966.71   787.99784   0.57    WIL-P1-02   788.972
2447570.28  309966.71   787.53208   0.47    WIL-P1-02   788.972
2447570.28  309966.71   787.07944   0.54    WIL-P1-02   788.972
2447570.28  309966.71   786.9548    0.44    WIL-P1-02   788.972
2447723.791 309866.774  784 0.57    WIL-P2-01   784 #Changed
2447723.791 309866.774  783.51784   0.95    WIL-P2-01   784
2447723.791 309866.774  783.04224   0.78    WIL-P2-01   784
2447723.791 309866.774  782.56008   0.49    WIL-P2-01   784
2447723.791 309866.774  782.10088   0.41    WIL-P2-01   784
2447723.791 309866.774  781.59248   0.52    WIL-P2-01   784
2447723.791 309866.774  781.09064   0.65    WIL-P2-01   784
2447723.791 309866.774  780.58224   0.62    WIL-P2-01   784
2447723.791 309866.774  780.07056   0.48    WIL-P2-01   784
2447723.791 309866.774  779.67368   0.57    WIL-P2-01   784
2447663.423 309856.006  783.25  1.26    WIL-P2-02   783.25
2447663.423 309856.006  782.80392   0.72    WIL-P2-02   783.25
2447663.423 309856.006  782.35128   1.12    WIL-P2-02   783.25
2447663.423 309856.006  781.84616   0.47    WIL-P2-02   783.25
2447663.423 309856.006  781.37056   0.87    WIL-P2-02   783.25
2447663.423 309856.006  780.87856   0.6 WIL-P2-02   783.25
2447663.423 309856.006  780.44232   0.5 WIL-P2-02   783.25
2447663.423 309856.006  780.00936   0.72    WIL-P2-02   783.25
2447663.423 309856.006  779.5764    0.5 WIL-P2-02   783.25
2447663.423 309856.006  779.11064   0.4 WIL-P2-02   783.25
2447663.423 309856.006  778.67112   0.34    WIL-P2-02   783.25
2447663.423 309856.006  778.2316    0.46    WIL-P2-02   783.25
2447663.423 309856.006  777.72648   0.46    WIL-P2-02   783.25
2447663.423 309856.006  777.26072   0.64    WIL-P2-02   783.25
2447663.423 309856.006  776.86056   0.66    WIL-P2-02   783.25
2447569.846 309832.846  786.896 0.89    WIL-P2-03   786.896
2447569.846 309832.846  786.44664   -0.85   WIL-P2-03   786.896
2447569.846 309832.846  785.97104   -1.49   WIL-P2-03   786.896
2447569.846 309832.846  785.47248   -0.99   WIL-P2-03   786.896
2447569.846 309832.846  785.00672   0.48    WIL-P2-03   786.896
2447569.846 309832.846  784.57704   0.31    WIL-P2-03   786.896
2447569.846 309832.846  784.11784   0.52    WIL-P2-03   786.896
2447569.846 309832.846  783.6816    0.07    WIL-P2-03   786.896
```

```
2447569.846 309832.846  783.34376   0.04    WIL-P2-03   786.896
2447569.846 309832.846  783.06824   0.95    WIL-P2-03   786.896
2447569.846 309832.846  782.62216   0.35    WIL-P2-03   786.896
2447569.846 309832.846  782.34664   0.02    WIL-P2-03   786.896
2447569.846 309832.846  781.88416   0.24    WIL-P2-03   786.896
2447569.846 309832.846  781.71688   0.41    WIL-P2-03   786.896
2447569.846 309832.846  781.2708    0.47    WIL-P2-03   786.896
2447569.846 309832.846  780.77552   -0.59   WIL-P2-03   786.896
2447569.846 309832.846  780.31304   0.31    WIL-P2-03   786.896
2447569.846 309832.846  779.844 0.11    WIL-P2-03   786.896
2447569.846 309832.846  779.37824   -0.08   WIL-P2-03   786.896
2447569.846 309832.846  778.91248   -0.89   WIL-P2-03   786.896
2447569.846 309832.846  778.4828    -2.57   WIL-P2-03   786.896
2447569.846 309832.846  778.02688   0.39    WIL-P2-03   786.896
2447569.846 309832.846  777.63984   0.05    WIL-P2-03   786.896
2447569.846 309832.846  777.18392   0.78    WIL-P2-03   786.896
2447569.846 309832.846  776.89856   0.84    WIL-P2-03   786.896
2447569.846 309832.846  776.44592   -0.41   WIL-P2-03   786.896
2447569.846 309832.846  776.26552   0.04    WIL-P2-03   786.896
2447611.566 309770.482  786.133 1.1 WIL-P2-04   786.133
2447611.566 309770.482  785.62788   1.34    WIL-P2-04   786.133
2447611.566 309770.482  785.17196   1.41    WIL-P2-04   786.133
2447611.566 309770.482  784.72916   1.41    WIL-P2-04   786.133
2447611.566 309770.482  784.2142    1.4 WIL-P2-04   786.133
2447611.566 309770.482  783.77796   1.49    WIL-P2-04   786.133
2447611.566 309770.482  783.33516   1.36    WIL-P2-04   786.133
2447611.566 309770.482  782.87924   1.39    WIL-P2-04   786.133
2447611.566 309770.482  782.41676   1.37    WIL-P2-04   786.133
2447611.566 309770.482  781.9346    1.37    WIL-P2-04   786.133
2447611.566 309770.482  781.41636   1.33    WIL-P2-04   786.133
2447611.566 309770.482  780.97028   1.34    WIL-P2-04   786.133
2447611.566 309770.482  780.53076   1.34    WIL-P2-04   786.133
2447611.566 309770.482  780.04532   1.3 WIL-P2-04   786.133
2447611.566 309770.482  779.573 1.34    WIL-P2-04   786.133
2447611.566 309770.482  779.09412   1.39    WIL-P2-04   786.133
2447611.566 309770.482  778.6546    1.48    WIL-P2-04   786.133
2447611.566 309770.482  778.19212   1.7 WIL-P2-04   786.133
2447611.566 309770.482  777.71652   1.53    WIL-P2-04   786.133
2447611.566 309770.482  777.20484   1.12    WIL-P2-04   786.133
2447611.566 309770.482  776.70628   1.38    WIL-P2-04   786.133
2447611.566 309770.482  776.20116   1.68    WIL-P2-04   786.133
2447611.566 309770.482  775.9322    1.72    WIL-P2-04   786.133
```

Easting	Northing	Depth	@@Fluorescence	Channel1_Adjusted	Channel2_Adjusted	Channel3_Adjusted	Channel4_Adjusted	Adjusted_ColorCode	CalculatedRed	CalculatedBlue	CalculatedGreen	Boring	Top Depth Ft	
1209	9	%	SU	SU	SU	SU	RGB	Red	Blue	Green				
2449591.975	309630.573	0	1.41	0.44	0.53	0.42	1	4694684	71	74	60	TF-03-02	788.128	
2449591.975	309630.573	0.03936	0.68	0.73	0.98	0.57	1	2257112	34	55	3	TF-03-02	788.128	
2449591.975	309630.573	0.06888	0.54	0.84	1	0.4	0.71	1725006	26	99	0	TF-03-02	788.128	
2449591.975	309630.573	0.07216	0.59	0.75	1	0.44	0.74	2632016	40	90	0	TF-03-02	788.128	
2449591.975	309630.573	0.12464	0.76	0.68	0.93	0.49	1	2676217	41	65	9	TF-03-02	788.128	
2449591.975	309630.573	0.20008	0.81	0.71	1	0.44	0.66	3247404	50	96	0	TF-03-02	788.128	
2449591.975	309630.573	0.25584	1	0.73	1	0.43	0.61	3135999	48	101	0	TF-03-02	788.128	
2449591.975	309630.573	0.33456	1.4	0.62	0.99	0.98	1	3175549	48	3	1	TF-03-02	788.128	
2449591.975	309630.573	0.41656	1.13	0.58	0.88	0.74	1	3513403	54	33	15	TF-03-02	788.128	
2449591.975	309630.573	0.47232	1.04	0.62	0.89	0.83	1	3178830	48	22	14	TF-03-02	788.128	
2449591.975	309630.573	0.5576	0.95	0.58	0.94	0.73	1	3511446	54	34	8	TF-03-02	788.128	
2449591.975	309630.573	0.61008	0.91	0.62	1	0.61	0.85	3651723	56	57	0	TF-03-02	788.128	
2449591.975	309630.573	0.69536	0.91	0.67	0.96	0.65	1	2759105	42	45	5	TF-03-02	788.128	
2449591.975	309630.573	0.78064	0.93	0.67	1	0.62	0.95	2895431	44	51	0	TF-03-02	788.128	
2449591.975	309630.573	0.8364	0.83	0.73	1	0.57	0.84	2616916	40	64	0	TF-03-02	788.128	
2449591.975	309630.573	0.9184	0.85	0.66	1	0.6	0.86	3238847	49	58	0	TF-03-02	788.128	
2449591.975	309630.573	1.00696	0.8	0.7	1	0.55	0.84	2907899	44	67	0	TF-03-02	788.128	
2449591.975	309630.573	1.06272	0.57	0.73	1	0.43	0.5	3384388	52	109	0	TF-03-02	788.128	
2449591.975	309630.573	1.14472	0.66	0.69	1	0.57	0.84	3004889	46	64	0	TF-03-02	788.128	
2449591.975	309630.573	1.23	0.67	0.72	1	0.57	0.91	2550066	39	60	0	TF-03-02	788.128	
2449591.975	309630.573	1.28576	0.73	0.57	0.83	0.52	1	3598295	55	61	22	TF-03-02	788.128	
2449591.975	309630.573	1.35136	0.46	0.78	1	0.42	0.39	2959725	45	119	0	TF-03-02	788.128	
2449591.975	309630.573	1.36776	0.67	0.79	1	0.46	0.94	1859985	28	73	0	TF-03-02	788.128	
2449591.975	309630.573	1.39728	0.65	0.7	0.98	0.58	1	2507458	38	54	3	TF-03-02	788.128	
2449591.975	309630.573	1.4268	0.61	0.73	1	0.52	0.67	3000975	46	81	0	TF-03-02	788.128	
2449591.975	309630.573	1.4432	0.65	0.78	1	0.5	0.8	2206018	34	76	0	TF-03-02	788.128	
2449591.975	309630.573	1.46288	0.73	0.78	1	0.52	0.86	2095911	32	70	0	TF-03-02	788.128	
2449591.975	309630.573	1.47272	0.74	0.73	1	0.51	0.95	2369192	36	66	0	TF-03-02	788.128	
2449618.667	309656.945	0	0.67	0.17	0.49	0.49	1	6951732	106	65	65	TF-03-03	787.933	
2449618.667	309656.945	0.0164	0.98	0.5	0.78	0.53	1	4185161	64	60	28	TF-03-03	787.933	
2449618.667	309656.945	0.10496	0.89	0.56	0.78	0.61	1	3683800	56	50	28	TF-03-03	787.933	
2449618.667	309656.945	0.14104	1.1	0.35	0.56	0.47	1	5446053	83	68	56	TF-03-03	787.933	
2449618.667	309656.945	0.22632	1.11	0.64	0.98	0.66	1	3008799	46	43	3	TF-03-03	787.933	
2449618.667	309656.945	0.27224	1.58	0.68	1	0.55	0.77	3288667	50	71	0	TF-03-03	787.933	
2449618.667	309656.945	0.3116	1.11	0.53	0.78	0.55	1	3934155	60	57	28	TF-03-03	787.933	
2449618.667	309656.945	0.37064	1.2	0.66	1	0.66	0.92	3068442	47	47	0	TF-03-03	787.933	
2449618.667	309656.945	0.41984	1.21	0.57	0.9	0.69	1	3595987	55	40	13	TF-03-03	787.933	
2449618.667	309656.945	0.50184	1.09	0.67	0.97	0.69	1	2758775	42	40	4	TF-03-03	787.933	
2449618.667	309656.945	0.60024	1.12	0.64	1	0.65	0.98	3068441	47	46	0	TF-03-03	787.933	
2449618.667	309656.945	0.64288	1.1	0.62	1	0.66	0.99	3206720	49	44	0	TF-03-03	787.933	
2449618.667	309656.945	0.66584	1.2	0.49	0.81	0.56	1	4268062	65	56	24	TF-03-03	787.933	
2449618.667	309656.945	0.68552	1	0.61	0.94	0.65	1	3260453	50	45	8	TF-03-03	787.933	
2449618.667	309656.945	0.7052	1.05	0.72	1	0.66	0.93	2503522	38	46	0	TF-03-03	787.933	
2449618.667	309656.945	0.75112	1.16	0.57	0.86	0.58	1	3597307	55	54	18	TF-03-03	787.933	
2449618.667	309656.945	0.76752	1.09	0.65	1	0.62	0.9	3217216	49	53	0	TF-03-03	787.933	
2449618.667	309656.945	0.78392	1.22	0.66	0.97	0.65	1	2842011	43	45	4	TF-03-03	787.933	
2449618.667	309656.945	0.8036	1.07	0.65	1	0.68	0.93	3129388	48	44	0	TF-03-03	787.933	
2449618.667	309656.945	0.81672	0.96	0.7	1	0.67	0.97	2582162	39	43	0	TF-03-03	787.933	
2449618.667	309656.945	0.82984	1.07	0.55	0.84	0.59	1	3765075	57	52	20	TF-03-03	787.933	
2449618.667	309656.945	0.84296	1.15	0.51	0.83	0.6	1	4100290	62	51	22	TF-03-03	787.933	
2449618.667	309656.945	0.85608	1.02	0.6	0.95	0.64	1	3344015	51	46	6	TF-03-03	787.933	
2449618.667	309656.945	0.87904	0.98	0.61	0.94	0.67	1	3260450	50	42	8	TF-03-03	787.933	
2449618.667	309656.945	0.89544	1.02	0.59	0.9	0.65	1	3429531	52	45	13	TF-03-03	787.933	
2449618.667	309656.945	0.92168	1.01	0.59	0.91	0.64	1	3429204	52	46	11	TF-03-03	787.933	
2449618.667	309656.945	0.92824	0.95	0.71	0.95	0.71	1	2425192	37	37	6	TF-03-03	787.933	
2449618.667	309656.945	0.9348	1.04	0.54	0.83	0.58	1	3849290	59	54	22	TF-03-03	787.933	
2449618.667	309656.945	0.94464	0.93	0.67	0.92	0.65	1	2760411	42	45	10	TF-03-03	787.933	
2449667.169	309699.224	0	0.17	0	1	0.2	0.89	9274768	142	113	0	TF-03-04	788.894	
2449667.169	309699.224	0.02624	0.77	0.41	0.7	0.75	1	4940097	75	32	38	TF-03-04	788.894	
2449667.169	309699.224	0.0492	0.81	0.36	0.58	0.66	1	5361490	82	43	54	TF-03-04	788.894	
2449667.169	309699.224	0.08856	1.56	0.67	1	0.69	0.72	3529820	54	51	0	TF-03-04	788.894	
2449667.169	309699.224	0.16072	0.64	0.53	0.86	0.97	1	3931491	60	4	18	TF-03-04	788.894	
2449667.169	309699.224	0.21976	2.34	0.67	1	0.85	0.94	2922926	45	20	0	TF-03-04	788.894	
2449667.169	309699.224	0.31488	2.53	0.58	1	0.92	0.95	3685100	56	11	0	TF-03-04	788.894	
2449667.169	309699.224	0.40672	1.26	0.62	0.99	0.99	1	3175548	48	1	1	TF-03-04	788.894	
2449667.169	309699.224	0.46904	1.59	0.55	0.95	0.84	1	3761454	57	20	6	TF-03-04	788.894	
2449667.169	309699.224	0.56416	1.36	0.4	0.77	0.9	1	5021023	76	13	29	TF-03-04	788.894	
2449667.169	309699.224	0.65928	0.96	0.54	0.95	0.96	1	3845325	59	5	6	TF-03-04	788.894	
2449667.169	309699.224	0.72488	1.09	0.46	0.83	0.82	1	4517727	69	23	22	TF-03-04	788.894	
2449667.169	309699.224	0.82328	1.09	0.43	0.83	0.68	1	4768747	73	41	22	TF-03-04	788.894	
2449667.169	309699.224	0.9184	0.98	0.51	0.86	0.83	1	4099281	62	22	18	TF-03-04	788.894	
2449667.169	309699.224	0.984	0.93	0.59	0.92	0.88	1	3428849	52	15	10	TF-03-04	788.894	
2449667.169	309699.224	1.08568	0.88	0.58	1	0.82	1	3509476	54	23	0	TF-03-04	788.894	
2449667.169	309699.224	1.15128	1.04	0.34	0.73	0.69	1	5523708	84	40	34	TF-03-04	788.894	
2449667.169	309699.224	1.2464	1	0.35	0.61	0.61	1	5444402	83	50	50	TF-03-04	788.894	
2449667.169	309699.224	1.35136	0.83	0.44	0.78	0.75	1	4686483	71	32	28	TF-03-04	788.894	
2449667.169	309699.224	1.41696	0.97	0.33	0.67	0.63	1	5608905	85	47	42	TF-03-04	788.894	
2449667.169	309699.224	1.51536	0.63	0.56	1	0.97	0.85	4227732	65	4	0	TF-03-04	788.894	
2449667.169	309699.224	1.61704	0.65	0.64	1	0.97	0.94	3188330	49	4	0	TF-03-04	788.894	
2449667.169	309699.224	1.68264	0.82	0.38	0.74	0.69	1	5189147	79	40	33	TF-03-04	788.894	
2449667.169	309699.224	1.78104	0.69	0.47	0.89	0.82	1	4432535	68	23	14	TF-03-04	788.894	
2449667.169	309699.224	1.84664	0.64	0.54	1	0.88	0.94	4074389	62	16	0	TF-03-04	788.894	
2449667.169	309699.224	1.94832	0.82	0.36	0.71	0.65	1	5357249	82	45	37	TF-03-04	788.894	
2449667.169	309699.224	2.04672	0.81	0.41	0.74	0.68	1	4938800	75	41	33	TF-03-04	788.894	
2449667.169	309699.224	2.1156	0.69	0.44	0.79	0.75	1	4686155	71	32	27	TF-03-04	788.894	
2449667.169	309699.224	2.21728	0.56	0.51	0.94	0.86	1	4096666	62	18	8	TF-03-04	788.894	
2449667.169	309699.224	2.31568	0.67	0.54	0.92	0.85	1	3846317	59	19	10	TF-03-04	788.894	
2449667.169	309699.224	2.38456	0.68	0.56	0.94	0.9	1	3678541	56	13	8	TF-03-04	788.894	
2449667.169	309699.224	2.48624	0.72	0.46	0.98	0.85	1	4512826	69	19	3	TF-03-04	788.894	
2449667.169	309699.224	2.51576	0.56	0.47	1	0.93	0.91	4827391	74	10	0	TF-03-04	788.894	
2449667.169	309699.224	2.53544	0.73	0.44	0.74	0.71	1	4687794	71	37	33	TF-03-04	788.894	
2449667.169	309699.224	2.63056	0.65	0.61	1	0.84	1	3258470	50	20	0	TF-03-04	788.894	
2449667.169	309699.224	2.69944	0.74	0.41	0.76	0.74	1	4938140	75	33	31	TF-03-04	788.894	
2449667.169	309699.224	2.80112	0.76	0.52	0.82	0.84	1	4016699	61	20	23	TF-03-04	788.894	
2449667.169	309699.224	2.87328	0.69	0.43	0.72	0.68	1	4772336	73	41	36	TF-03-04	788.894	
2449667.169	309699.224	2.97824	0.66	0.45	0.77	0.75	1	4602922	70	32	29	TF-03-04	788.894	
2449667.169	309699.224	3.0832	0.5	0.61	0.97	1	0.86	3716352	57	0	4	TF-03-04	788.894	
2449667.169	309699.224	3.15536	0.82	0.38	0.68	0.62	1	5191114	79	48	41	TF-03-04	788.894	

```
2449667.169 309699.224  3.26032 0.65    0.59    1   0.87    0.98    3494396 53  17  0   TF-03-04    788.894
2449667.169 309699.224  3.36528 0.6 0.45    1   0.74    0.74    5790803 88  42  0   TF-03-04    788.894
2449667.169 309699.224  3.43744 0.8 0.3 0.59    0.57    1   5862526 89  55  52  TF-03-04    788.894
2449667.169 309699.224  3.5424  0.81    0.32    0.57    0.62    1   5696054 87  48  55  TF-03-04    788.894
2449667.169 309699.224  3.61456 0.71    0.49    0.75    0.73    1   4270002 65  34  32  TF-03-04    788.894
2449667.169 309699.224  3.71952 0.37    0.52    1   0.92    0.26    6978946 106 18  0   TF-03-04    788.894
2449667.169 309699.224  3.82448 0.76    0.37    0.73    0.7 1   5272704 80  38  34  TF-03-04    788.894
2449667.169 309699.224  3.89664 0.53    0.63    1   0.99    0.95    3245999 50  1   0   TF-03-04    788.894
2449667.169 309699.224  4.0016  0.71    0.45    0.85    0.73    1   4600316 70  34  19  TF-03-04    788.894
2449667.169 309699.224  4.10656 0.73    0.52    0.87    0.79    1   4015074 61  27  17  TF-03-04    788.894
2449667.169 309699.224  4.17872 0.58    0.66    0.95    0.9 1   2842632 43  13  6   TF-03-04    788.894
2449667.169 309699.224  4.28696 0.56    0.51    1   0.9 0.93    4381095 67  14  0   TF-03-04    788.894
2449667.169 309699.224  4.39192 0.66    0.34    0.7 0.7 1   5524685 84  38  38  TF-03-04    788.894
2449667.169 309699.224  4.46408 0.54    0.43    0.79    0.76    1   4770040 73  31  27  TF-03-04    788.894
2449667.169 309699.224  4.56904 0.66    0.46    0.82    0.73    1   4518063 69  34  23  TF-03-04    788.894
2449667.169 309699.224  4.674   0.67    0.46    0.91    0.78    1   4515118 69  28  11  TF-03-04    788.894
2449667.169 309699.224  4.74288 0.75    0.41    0.67    0.66    1   4941089 75  43  42  TF-03-04    788.894
2449667.169 309699.224  4.84784 0.68    0.41    0.79    0.75    1   4937158 75  32  27  TF-03-04    788.894
2449667.169 309699.224  4.92    0.7 0.37    0.75    0.72    1   5272048 80  36  32  TF-03-04    788.894
2449667.169 309699.224  5.02496 0.68    0.37    0.82    0.7 1   5269765 80  38  23  TF-03-04    788.894
2449667.169 309699.224  5.12664 0.68    0.35    0.63    0.65    1   5443746 83  45  47  TF-03-04    788.894
2449667.169 309699.224  5.1988  0.48    0.52    0.79    1   0.71    5182909 79  0   35  TF-03-04    788.894
2449667.169 309699.224  5.30048 0.55    0.51    0.92    0.96    1   4097306 62  5   10  TF-03-04    788.894
2449667.169 309699.224  5.36936 0.56    0.54    1   0.97    0.9 4228387 65  4   0   TF-03-04    788.894
2449667.169 309699.224  5.47432 0.97    0.29    0.55    0.51    1   5947068 91  62  57  TF-03-04    788.894
2449667.169 309699.224  5.57928 1.08    0.73    1   0.71    0.88    2527110 39  41  0   TF-03-04    788.894
2449667.169 309699.224  5.64488 0.66    0.4 0.83    0.79    1   5019081 76  27  22  TF-03-04    788.894
2449667.169 309699.224  5.73672 0.8 0.33    0.6 0.6 1   5611192 85  51  51  TF-03-04    788.894
2449667.169 309699.224  5.74656 0.6 0.54    0.98    0.88    1   3844354 59  15  3   TF-03-04    788.894
2449667.169 309699.224  5.78592 0.63    0.49    0.8 0.82    1   4268357 65  23  26  TF-03-04    788.894
2449667.169 309699.224  5.80232 0.58    0.47    0.84    0.74    1   4434178 68  33  20  TF-03-04    788.894
2449667.169 309699.224  5.8384  0.75    0.31    0.72    0.66    1   5775040 88  43  36  TF-03-04    788.894
2449667.169 309699.224  5.91384 0.6 0.42    0.75    0.82    1   4854571 74  23  32  TF-03-04    788.894
2449667.169 309699.224  5.95976 0.55    0.56    0.89    0.93    1   3680168 56  9   14  TF-03-04    788.894
2449667.169 309699.224  6.0352  0.66    0.43    0.98    0.8 1   4763835 73  26  3   TF-03-04    788.894
2449667.169 309699.224  6.1172  0.66    0.36    0.64    0.68    1   5359529 82  41  46  TF-03-04    788.894
2449667.169 309699.224  6.17296 0.55    0.43    0.93    0.85    1   4765459 73  19  9   TF-03-04    788.894
2449667.169 309699.224  6.26152 0.56    0.41    0.93    0.87    1   4932573 75  17  9   TF-03-04    788.894
2449667.169 309699.224  6.35336 0.61    0.31    0.62    0.73    1   5778295 88  34  48  TF-03-04    788.894
2449667.169 309699.224  6.41896 0.68    0.38    0.64    0.69    1   5192411 79  40  46  TF-03-04    788.894
2449667.169 309699.224  6.5108  0.44    0.55    0.98    1   0.68    4963904 76  0   3   TF-03-04    788.894
2449667.169 309699.224  6.5764  0.59    0.45    0.95    0.92    1   4597028 70  10  6   TF-03-04    788.894
2449667.169 309699.224  6.6748  0.78    0.29    0.62    0.65    1   5944767 91  45  48  TF-03-04    788.894
2449667.169 309699.224  6.76992 0.54    0.44    1   0.95    0.93    5006957 76  7   0   TF-03-04    788.894
2449667.169 309699.224  6.83552 0.61    0.47    0.88    0.91    1   4432851 68  11  15  TF-03-04    788.894
2449667.169 309699.224  6.93064 0.53    0.44    0.94    0.85    1   4681248 71  19  8   TF-03-04    788.894
2449667.169 309699.224  7.02904 0.54    0.49    0.93    0.96    1   4264095 65  5   9   TF-03-04    788.894
2449667.169 309699.224  7.09136 0.51    0.5 1   0.95    0.86    4763164 73  7   0   TF-03-04    788.894
2449667.169 309699.224  7.18976 0.72    0.36    0.73    0.7 1   5356590 82  38  34  TF-03-04    788.894
2449667.169 309699.224  7.25208 0.66    0.43    0.95    0.77    1   4764819 73  29  6   TF-03-04    788.894
2449667.169 309699.224  7.34064 0.79    0.38    0.79    0.73    1   5187508 79  34  27  TF-03-04    788.894
2449667.169 309699.224  7.43248 0.66    0.32    0.67    0.67    1   5692786 87  42  42  TF-03-04    788.894
2449667.169 309699.224  7.49152 0.58    0.49    0.93    0.91    1   4264101 65  11  9   TF-03-04    788.894
2449667.169 309699.224  7.57024 0.54    0.5 1   0.89    0.82    4930290 75  17  0   TF-03-04    788.894
2449667.169 309699.224  7.59976 0.64    0.38    0.76    0.7 1   5188493 79  38  31  TF-03-04    788.894
2449667.169 309699.224  7.62928 0.51    0.54    1   0.96    0.7 4996471 76  7   0   TF-03-04    788.894
2449667.169 309699.224  7.66536 0.73    0.3 0.7 0.65    1   5858925 89  45  38  TF-03-04    788.894
2449667.169 309699.224  7.68832 0.59    0.45    0.83    0.83    1   4600956 70  22  22  TF-03-04    788.894
2449667.169 309699.224  7.74736 0.57    0.32    0.63    0.68    1   5694090 87  41  47  TF-03-04    788.894
2449667.169 309699.224  7.80312 0.63    0.34    0.7 0.77    1   5524676 84  29  38  TF-03-04    788.894
2449667.169 309699.224  7.85888 0.64    0.33    0.6 0.66    1   5611184 85  43  51  TF-03-04    788.894
2449667.169 309699.224  7.95072 0.53    0.48    0.88    0.93    1   4348963 66  9   15  TF-03-04    788.894
2449667.169 309699.224  8.04256 0.65    0.32    0.68    0.64    1   5692462 87  46  41  TF-03-04    788.894
2449667.169 309699.224  8.07864 0.6 0.41    0.72    0.69    1   4939452 75  40  36  TF-03-04    788.894
2449667.169 309699.224  8.1672  0.64    0.36    0.71    0.72    1   5357240 82  36  37  TF-03-04    788.894
2449667.169 309699.224  8.22952 0.49    0.45    0.95    0.92    1   4597028 70  10  6   TF-03-04    788.894
2449667.169 309699.224  8.32464 0.53    0.42    0.75    0.84    1   4854569 74  20  32  TF-03-04    788.894
2449667.169 309699.224  8.41976 0.76    0.32    0.6 0.63    1   5695074 87  47  51  TF-03-04    788.894
2449667.169 309699.224  8.48536 0.65    0.36    0.66    0.76    1   5358866 82  31  43  TF-03-04    788.894
2449667.169 309699.224  8.58376 0.64    0.3 0.62    0.63    1   5861538 89  47  48  TF-03-04    788.894
2449667.169 309699.224  8.6756  0.63    0.41    0.72    0.78    1   4939441 75  28  36  TF-03-04    788.894
2449667.169 309699.224  8.73136 0.49    0.44    0.93    1   0.84    5430341 83  0   10  TF-03-04    788.894
2449667.169 309699.224  8.79368 0.68    0.34    0.66    0.72    1   5525988 84  36  43  TF-03-04    788.894
2449667.169 309699.224  8.80024 0.95    0.31    0.53    0.57    1   5781252 88  55  60  TF-03-04    788.894
2449652.836 309632.924  0   1.53    0.44    0.69    0.6 1   4689441 71  51  40  TF-03-05    787.874
2449652.836 309632.924  0.00328 1.25    0.46    0.69    0.62    1   4522322 69  48  40  TF-03-05    787.874
2449652.836 309632.924  0.03936 1.35    0.35    0.5 0.51    1   5448006 83  62  64  TF-03-05    787.874
2449652.836 309632.924  0.082   2.25    0.67    0.93    0.66    1   2760082 42  43  9   TF-03-05    787.874
2449652.836 309632.924  0.12792 1.42    0.51    0.73    0.59    1   4103556 62  52  34  TF-03-05    787.874
2449652.836 309632.924  0.15416 1.26    0.42    0.6 0.56    1   4859499 74  56  51  TF-03-05    787.874
2449652.836 309632.924  0.18696 1.74    0.55    0.78    0.59    1   3767033 57  52  28  TF-03-05    787.874
2449652.836 309632.924  0.24272 1.59    0.54    0.82    0.62    1   3849610 59  48  23  TF-03-05    787.874
2449652.836 309632.924  0.28208 2.75    0.58    0.84    0.64    1   3514721 54  46  20  TF-03-05    787.874
2449652.836 309632.924  0.37064 1.89    0.5 0.74    0.68    1   4186447 64  41  33  TF-03-05    787.874
2449652.836 309632.924  0.48216 1.48    0.48    0.71    0.72    1   4354539 66  36  37  TF-03-05    787.874
2449652.836 309632.924  0.48544 1.38    0.48    0.76    0.72    1   4352906 66  36  31  TF-03-05    787.874
2449652.836 309632.924  0.492   1.61    0.39    0.65    0.64    1   5108203 78  46  45  TF-03-05    787.874
2449652.836 309632.924  0.53792 1.45    0.54    0.78    0.79    1   3850894 59  27  28  TF-03-05    787.874
2449652.836 309632.924  0.6068  1.61    0.4 0.6 0.57    1   5026615 76  55  51  TF-03-05    787.874
2449652.836 309632.924  0.67568 1.59    0.41    0.59    0.6 1   4943708 75  51  52  TF-03-05    787.874
2449652.836 309632.924  0.72488 1.61    0.39    0.61    0.59    1   5109515 78  52  50  TF-03-05    787.874
2449652.836 309632.924  0.79376 1.5 0.41    0.6 0.56    1   4943385 75  56  51  TF-03-05    787.874
2449652.836 309632.924  0.8692  1.42    0.45    0.63    0.57    1   4607517 70  55  47  TF-03-05    787.874
2449652.836 309632.924  0.9184  1.35    0.42    0.62    0.57    1   4858845 74  55  48  TF-03-05    787.874
2449652.836 309632.924  0.99384 1.41    0.44    0.68    0.59    1   4689767 71  52  41  TF-03-05    787.874
2449652.836 309632.924  1.06928 1.22    0.49    0.64    0.62    1   4273605 65  48  46  TF-03-05    787.874
2449652.836 309632.924  1.11848 1.36    0.47    0.68    0.59    1   4439420 68  52  41  TF-03-05    787.874
2449652.836 309632.924  1.19392 1.21    0.55    0.72    0.63    1   3768987 57  47  36  TF-03-05    787.874
2449652.836 309632.924  1.24968 1.29    0.46    0.65    0.6 1   4523627 69  51  45  TF-03-05    787.874
2449652.836 309632.924  1.33824 1.33    0.46    0.66    0.59    1   4523303 69  52  43  TF-03-05    787.874
2449652.836 309632.924  1.4268  1.42    0.43    0.59    0.54    1   4776599 73  59  52  TF-03-05    787.874
2449652.836 309632.924  1.48584 1.34    0.47    0.68    0.6 1   4439419 68  51  41  TF-03-05    787.874
```

```
2449652.836 309632.924  1.57768 1.26    0.5 0.68    0.63    1   4188412 64  47  41  TF-03-05    787.874
2449652.836 309632.924  1.6728  1.29    0.46    0.61    0.6 1   4524933 69  51  50  TF-03-05    787.874
2449652.836 309632.924  1.7384  1.39    0.44    0.66    0.57    1   4690423 71  55  43  TF-03-05    787.874
2449652.836 309632.924  1.83352 1.38    0.44    0.63    0.59    1   4691401 71  52  47  TF-03-05    787.874
2449652.836 309632.924  1.93192 1.2 0.43    0.63    0.6 1   4775286 73  51  47  TF-03-05    787.874
2449652.836 309632.924  1.99424 1.18    0.42    0.62    0.61    1   4858840 74  50  48  TF-03-05    787.874
2449652.836 309632.924  2.09264 1.17    0.49    0.66    0.57    1   4272958 65  55  43  TF-03-05    787.874
2449652.836 309632.924  2.18776 1.22    0.42    0.65    0.6 1   4857861 74  51  45  TF-03-05    787.874
2449652.836 309632.924  2.25336 1.22    0.42    0.58    0.55    1   4860153 74  57  54  TF-03-05    787.874
2449652.836 309632.924  2.35176 1.22    0.45    0.63    0.59    1   4607515 70  52  47  TF-03-05    787.874
2449652.836 309632.924  2.41408 1.23    0.49    0.66    0.62    1   4272952 65  48  43  TF-03-05    787.874
2449652.836 309632.924  2.51576 1.3 0.39    0.62    0.57    1   5109193 78  55  48  TF-03-05    787.874
2449652.836 309632.924  2.55512 1.23    0.45    0.62    0.6 1   4607839 70  51  48  TF-03-05    787.874
2449652.836 309632.924  2.58792 1.21    0.46    0.7 0.65    1   4521990 69  45  38  TF-03-05    787.874
2449652.836 309632.924  2.60432 1.19    0.45    0.68    0.62    1   4605878 70  48  41  TF-03-05    787.874
2449652.836 309632.924  2.6896  1.2 0.5 0.72    0.67    1   4187101 64  42  36  TF-03-05    787.874
2449652.836 309632.924  2.788   1.24    0.44    0.73    0.62    1   4688133 71  48  34  TF-03-05    787.874
2449652.836 309632.924  2.85032 1.14    0.42    0.63    0.6 1   4858516 74  51  47  TF-03-05    787.874
2449652.836 309632.924  2.95528 1.3 0.42    0.64    0.59    1   4858190 74  52  46  TF-03-05    787.874
2449652.836 309632.924  3.05368 1.38    0.46    0.68    0.58    1   4522652 69  54  41  TF-03-05    787.874
2449652.836 309632.924  3.116   1.33    0.49    0.7 0.6 1   4271649 65  51  38  TF-03-05    787.874
2449652.836 309632.924  3.21768 1.3 0.51    0.81    0.64    1   4100935 62  46  24  TF-03-05    787.874
2449652.836 309632.924  3.28656 1.32    0.48    0.7 0.58    1   4354882 66  54  38  TF-03-05    787.874
2449652.836 309632.924  3.38496 1.44    0.4 0.63    0.55    1   5025639 76  57  47  TF-03-05    787.874
2449652.836 309632.924  3.48336 1.34    0.48    0.69    0.59    1   4355209 66  52  40  TF-03-05    787.874
2449652.836 309632.924  3.55224 1.32    0.44    0.63    0.57    1   4691403 71  55  47  TF-03-05    787.874
2449652.836 309632.924  3.65064 1.33    0.48    0.68    0.59    1   4355534 66  52  41  TF-03-05    787.874
2449652.836 309632.924  3.75232 1.63    0.35    0.58    0.5 1   5445396 83  64  54  TF-03-05    787.874
2449652.836 309632.924  3.8212  1.18    0.5 0.77    0.63    1   4185473 64  47  29  TF-03-05    787.874
2449652.836 309632.924  3.92288 1.31    0.44    0.64    0.57    1   4691076 71  55  46  TF-03-05    787.874
2449652.836 309632.924  4.02456 1.28    0.42    0.6 0.61    1   4859493 74  50  51  TF-03-05    787.874
2449652.836 309632.924  4.09016 1.29    0.42    0.63    0.58    1   4858519 74  54  47  TF-03-05    787.874
2449652.836 309632.924  4.19184 1.18    0.61    0.81    0.65    1   3264695 50  45  24  TF-03-05    787.874
2449652.836 309632.924  4.25744 1.38    0.54    0.75    0.63    1   3851895 59  47  32  TF-03-05    787.874
2449652.836 309632.924  4.3624  1.32    0.61    0.79    0.66    1   3265346 50  43  27  TF-03-05    787.874
2449652.836 309632.924  4.4608  1.31    0.61    0.86    0.67    1   3263062 50  42  18  TF-03-05    787.874
2449652.836 309632.924  4.52968 1.29    0.53    0.76    0.63    1   3934798 60  47  31  TF-03-05    787.874
2449652.836 309632.924  4.63136 1.26    0.51    0.79    0.66    1   4101586 62  43  27  TF-03-05    787.874
2449652.836 309632.924  4.73304 1.28    0.48    0.67    0.59    1   4355862 66  52  42  TF-03-05    787.874
2449652.836 309632.924  4.80192 1.26    0.48    0.71    0.63    1   4354551 66  47  37  TF-03-05    787.874
2449652.836 309632.924  4.9036  1.33    0.48    0.68    0.6 1   4355533 66  51  41  TF-03-05    787.874
2449652.836 309632.924  4.97248 1.27    0.51    0.77    0.65    1   4102240 62  45  29  TF-03-05    787.874
2449652.836 309632.924  5.07416 1.34    0.56    0.79    0.6 1   3683474 56  51  27  TF-03-05    787.874
2449652.836 309632.924  5.17584 1.36    0.65    0.97    0.7 1   2925235 45  38  4   TF-03-05    787.874
2449652.836 309632.924  5.24472 1.28    0.43    0.63    0.57    1   4775289 73  55  47  TF-03-05    787.874
2449652.836 309632.924  5.34968 1.27    0.5 0.71    0.62    1   4187435 64  48  37  TF-03-05    787.874
2449652.836 309632.924  5.45136 1.34    0.49    0.71    0.6 1   4271324 65  51  37  TF-03-05    787.874
2449652.836 309632.924  5.52024 1.29    0.51    0.73    0.63    1   4103551 62  47  34  TF-03-05    787.874
2449652.836 309632.924  5.6252  1.34    0.57    0.82    0.65    1   3598603 55  45  23  TF-03-05    787.874
2449652.836 309632.924  5.69408 1.35    0.49    0.77    0.65    1   4269357 65  45  29  TF-03-05    787.874
2449652.836 309632.924  5.74984 1.24    0.5 0.8 0.63    1   4184495 64  47  26  TF-03-05    787.874
2449652.836 309632.924  5.75312 1.3 0.53    0.78    0.65    1   3934143 60  45  28  TF-03-05    787.874
2449652.836 309632.924  5.76952 1.15    0.42    0.79    0.67    1   4853282 74  42  27  TF-03-05    787.874
2449652.836 309632.924  5.8548  1.35    0.53    0.73    0.66    1   3935775 60  43  34  TF-03-05    787.874
2449652.836 309632.924  5.92368 1.27    0.45    0.74    0.61    1   4603920 70  50  33  TF-03-05    787.874
2449652.836 309632.924  6.02536 1.21    0.44    0.69    0.6 1   4689441 71  51  40  TF-03-05    787.874
2449652.836 309632.924  6.12376 1.26    0.46    0.73    0.6 1   4521019 69  51  34  TF-03-05    787.874
2449652.836 309632.924  6.19264 1.22    0.53    0.77    0.66    1   3934466 60  43  29  TF-03-05    787.874
2449652.836 309632.924  6.2976  1.22    0.54    0.82    0.66    1   3849605 59  43  23  TF-03-05    787.874
2449652.836 309632.924  6.39928 1.33    0.5 0.71    0.61    1   4187437 64  50  37  TF-03-05    787.874
2449652.836 309632.924  6.46816 1.35    0.52    0.79    0.61    1   4017706 61  50  27  TF-03-05    787.874
2449652.836 309632.924  6.56984 1.35    0.63    0.94    0.72    1   3093983 47  36  8   TF-03-05    787.874
2449652.836 309632.924  6.63872 1.23    0.54    0.83    0.71    1   3849273 59  37  22  TF-03-05    787.874
2449652.836 309632.924  6.7404  1.17    0.5 0.74    0.67    1   4186448 64  42  33  TF-03-05    787.874
2449652.836 309632.924  6.84536 1.25    0.47    0.71    0.61    1   4438439 68  50  37  TF-03-05    787.874
2449652.836 309632.924  6.91752 1.14    0.57    0.9 0.73    1   3595982 55  34  13  TF-03-05    787.874
2449652.836 309632.924  7.0192  1.28    0.48    0.76    0.61    1   4352920 66  50  31  TF-03-05    787.874
2449652.836 309632.924  7.12088 1.46    0.49    0.95    0.69    1   4263479 65  40  6   TF-03-05    787.874
2449652.836 309632.924  7.19304 1.34    0.6 0.86    0.67    1   3346948 51  42  18  TF-03-05    787.874
2449652.836 309632.924  7.298   1.43    0.51    0.83    0.65    1   4100284 62  45  22  TF-03-05    787.874
2449652.836 309632.924  7.40296 1.27    0.59    1   0.61    0.65    4624943 71  67  0   TF-03-05    787.874
2449652.836 309632.924  7.47184 1.63    0.63    1   0.62    0.74    3895521 59  61  0   TF-03-05    787.874
2449652.836 309632.924  7.57352 1.79    0.63    1   0.61    0.78    3771657 58  61  0   TF-03-05    787.874
2449652.836 309632.924  7.6424  1.85    0.65    1   0.6 0.6 4094105 62  71  0   TF-03-05    787.874
2449652.836 309632.924  7.75064 2.54    0.7 1   0.58    0.5 3760536 57  80  0   TF-03-05    787.874
2449652.836 309632.924  7.8556  3.35    0.52    1   0.44    0.45    6216856 95  111 0   TF-03-05    787.874
2449652.836 309632.924  7.96384 2.83    0.47    1   0.42    0.45    6864355 105 115 0   TF-03-05    787.874
2449652.836 309632.924  8.036   2.38    0.5 1   0.43    0.55    6058253 92  105 0   TF-03-05    787.874
2449652.836 309632.924  8.14096 3.38    0.49    1   0.4 0.33    7116682 109 128 0   TF-03-05    787.874
2449652.836 309632.924  8.20984 4.01    0.51    1   0.38    0.3 6960713 106 134 0   TF-03-05    787.874
2449652.836 309632.924  8.31808 3.53    0.48    1   0.37    0.36    7125861 109 132 0   TF-03-05    787.874
2449652.836 309632.924  8.41976 2.41    0.52    1   0.44    0.49    6056290 92  108 0   TF-03-05    787.874
2449652.836 309632.924  8.49192 2.68    0.5 1   0.39    0.4 6684796 102 124 0   TF-03-05    787.874
2449652.836 309632.924  8.59688 1.79    0.52    1   0.59    0.81    4773049 73  62  0   TF-03-05    787.874
2449652.836 309632.924  8.70512 1.56    0.55    1   0.6 0.95    3947942 60  54  0   TF-03-05    787.874
2449652.836 309632.924  8.81336 1.14    0.46    0.71    0.63    1   4521668 69  47  37  TF-03-05    787.874
2449652.836 309632.924  8.88552 1.3 0.42    0.72    0.62    1   4855575 74  48  36  TF-03-05    787.874
2449652.836 309632.924  8.91176 1.24    0.4 0.66    0.63    1   5024649 76  47  43  TF-03-05    787.874
2449652.836 309632.924  8.91832 1.24    0.38    0.69    0.62    1   5190789 79  48  40  TF-03-05    787.874
2449652.836 309632.924  9.01016 1.7 0.6 1   0.53    0.64    4545658 69  82  0   TF-03-05    787.874
2449652.836 309632.924  9.07248 1.82    0.55    1   0.54    0.63    5151210 79  80  0   TF-03-05    787.874
2449652.836 309632.924  9.1676  1.45    0.6 1   0.61    0.81    3977439 61  59  0   TF-03-05    787.874
2449652.836 309632.924  9.27256 2.01    0.53    1   0.48    0.63    5380596 82  91  0   TF-03-05    787.874
2449652.836 309632.924  9.34144 1.8 0.56    1   0.56    0.7 4779613 73  73  0   TF-03-05    787.874
2449652.836 309632.924  9.44968 1.45    0.55    1   0.69    0.9 4136020 63  43  0   TF-03-05    787.874
2449652.836 309632.924  9.55464 1.17    0.49    0.8 0.72    1   4268370 65  36  26  TF-03-05    787.874
2449652.836 309632.924  9.6268  1.81    0.54    1   0.54    0.74    4843184 74  74  0   TF-03-05    787.874
2449652.836 309632.924  9.73176 1.17    0.53    0.94    0.74    1   3928909 60  33  8   TF-03-05    787.874
2449652.836 309632.924  9.80064 1.18    0.42    0.78    0.64    1   4853614 74  46  28  TF-03-05    787.874
2449652.836 309632.924  9.9056  1.22    0.46    0.74    0.66    1   4520683 69  43  33  TF-03-05    787.874
2449652.836 309632.924  10.01056    1.07    0.48    0.81    0.71    1   4351274 66  37  24  TF-03-05    787.874
2449652.836 309632.924  10.08272    1.14    0.37    0.59    0.62    1   5277284 80  48  52  TF-03-05    787.874
```

```
2449652.836 309632.924  10.18768    1.04    0.39    0.61    0.62    1   5109511 78  48  50  TF-03-05    787.874
2449652.836 309632.924  10.25984    1.17    0.35    0.63    0.59    1   5443754 83  52  47  TF-03-05    787.874
2449652.836 309632.924  10.3648 1.38    0.33    0.55    0.54    1   5612830 85  59  57  TF-03-05    787.874
2449652.836 309632.924  10.47304    1.24    0.34    0.59    0.58    1   5528292 84  54  52  TF-03-05    787.874
2449652.836 309632.924  10.54192    1.03    0.39    0.67    0.68    1   5107548 78  41  42  TF-03-05    787.874
2449652.836 309632.924  10.64688    1.09    0.4 0.59    0.62    1   5026936 76  48  52  TF-03-05    787.874
2449652.836 309632.924  10.75512    1.03    0.45    0.63    0.67    1   4607504 70  42  47  TF-03-05    787.874
2449652.836 309632.924  10.824  1.09    0.39    0.61    0.61    1   5109513 78  50  50  TF-03-05    787.874
2449652.836 309632.924  10.92896    0.91    0.49    0.8 0.76    1   4268365 65  31  26  TF-03-05    787.874
2449652.836 309632.924  11.0372 0.99    0.43    0.71    0.65    1   4772668 73  45  37  TF-03-05    787.874
2449652.836 309632.924  11.10936    1.13    0.36    0.6 0.58    1   5360847 82  54  51  TF-03-05    787.874
2449652.836 309632.924  11.2176 1.13    0.36    0.57    0.61    1   5361821 82  50  55  TF-03-05    787.874
2449652.836 309632.924  11.28648    1.12    0.35    0.55    0.56    1   5446366 83  56  57  TF-03-05    787.874
2449652.836 309632.924  11.39144    1.05    0.37    0.65    0.63    1   5275321 80  47  45  TF-03-05    787.874
2449652.836 309632.924  11.49968    0.85    0.48    0.88    0.81    1   4348978 66  24  15  TF-03-05    787.874
2449652.836 309632.924  11.57184    1   0.41    0.7 0.66    1   4940109 75  43  38  TF-03-05    787.874
2449652.836 309632.924  11.68008    0.94    0.49    0.78    0.72    1   4269023 65  36  28  TF-03-05    787.874
2449652.836 309632.924  11.78504    1.01    0.4 0.71    0.67    1   5023013 76  42  37  TF-03-05    787.874
2449652.836 309632.924  11.85392    1.14    0.44    0.7 0.65    1   4689107 71  45  38  TF-03-05    787.874
2449652.836 309632.924  11.96216    0.94    0.53    0.77    0.77    1   3934452 60  29  29  TF-03-05    787.874
2449652.836 309632.924  12.0704 0.93    0.44    0.63    0.69    1   4691388 71  40  47  TF-03-05    787.874
2449652.836 309632.924  12.13928    0.97    0.38    0.62    0.66    1   5193067 79  43  48  TF-03-05    787.874
2449652.836 309632.924  12.18192    1.15    0.32    0.53    0.55    1   5697368 87  57  60  TF-03-05    787.874
2449652.836 309632.924  12.1852 0.94    0.39    0.72    0.67    1   5105916 78  42  36  TF-03-05    787.874
2449652.836 309632.924  12.2508 1   0.44    0.76    0.72    1   4687140 71  36  31  TF-03-05    787.874
2449652.836 309632.924  12.31968    0.98    0.46    0.84    0.74    1   4517409 69  33  20  TF-03-05    787.874
2449652.836 309632.924  12.42464    0.9 0.39    0.7 0.72    1   5106562 78  36  38  TF-03-05    787.874
2449652.836 309632.924  12.49352    0.99    0.45    0.73    0.68    1   4604239 70  41  34  TF-03-05    787.874
2449652.836 309632.924  12.60176    1.03    0.38    0.59    0.63    1   5194052 79  47  52  TF-03-05    787.874
2449652.836 309632.924  12.70344    1.04    0.37    0.67    0.64    1   5274670 80  46  42  TF-03-05    787.874
2449652.836 309632.924  12.76904    1.08    0.37    0.61    0.62    1   5276628 80  48  50  TF-03-05    787.874
2449652.836 309632.924  12.8084 1.06    0.34    0.63    0.63    1   5526980 84  47  47  TF-03-05    787.874
2449644.077 309587.3    0.00656 1.32    0.36    0.58    0.45    1   5361517 82  70  54  TF-03-06    787.747
2449644.077 309587.3    0.02952 0.81    0.4 0.66    0.64    1   5024648 76  46  43  TF-03-06    787.747
2449644.077 309587.3    0.07544 0.85    0.46    0.67    0.6 1   4522977 69  51  42  TF-03-06    787.747
2449644.077 309587.3    0.14104 0.84    0.43    0.63    0.66    1   4775278 73  43  47  TF-03-06    787.747
2449644.077 309587.3    0.20008 0.83    0.48    0.73    0.7 1   4353889 66  38  34  TF-03-06    787.747
2449644.077 309587.3    0.23288 2.46    0.74    1   0.6 0.64    2954432 45  69  0   TF-03-06    787.747
2449644.077 309587.3    0.27552 2.31    0.65    1   0.67    0.78    3567831 54  51  0   TF-03-06    787.747
2449644.077 309587.3    0.31488 1.81    0.53    1   0.75    0.92    4241524 65  34  0   TF-03-06    787.747
2449644.077 309587.3    0.34112 2.19    0.61    1   0.62    0.83    3812941 58  57  0   TF-03-06    787.747
2449644.077 309587.3    0.40344 1.41    0.63    1   0.8 1   3092014 47  26  0   TF-03-06    787.747
2449644.077 309587.3    0.47232 0.98    0.54    0.88    0.85    1   3847622 59  19  15  TF-03-06    787.747
2449644.077 309587.3    0.52152 1.01    0.43    0.82    0.65    1   4769076 73  45  23  TF-03-06    787.747
2449644.077 309587.3    0.5904  1.13    0.45    0.81    0.63    1   4601632 70  47  24  TF-03-06    787.747
2449644.077 309587.3    0.6396  1.19    0.47    0.78    0.65    1   4436148 68  45  28  TF-03-06    787.747
2449644.077 309587.3    0.71832 1.07    0.46    0.71    0.64    1   4521666 69  46  37  TF-03-06    787.747
2449644.077 309587.3    0.81344 1.07    0.52    0.71    0.64    1   4020316 61  46  37  TF-03-06    787.747
2449644.077 309587.3    0.87904 1.06    0.43    0.72    0.65    1   4772340 73  45  36  TF-03-06    787.747
2449644.077 309587.3    0.97416 0.98    0.46    0.77    0.63    1   4519707 69  47  29  TF-03-06    787.747
2449644.077 309587.3    1.07256 0.98    0.5 0.76    0.67    1   4185796 64  42  31  TF-03-06    787.747
2449644.077 309587.3    1.13816 1.01    0.45    0.73    0.68    1   4604239 70  41  34  TF-03-06    787.747
2449644.077 309587.3    1.23328 1.14    0.43    0.69    0.62    1   4773325 73  48  40  TF-03-06    787.747
2449644.077 309587.3    1.33168 1.05    0.47    0.72    0.62    1   4438111 68  48  36  TF-03-06    787.747
2449644.077 309587.3    1.39728 1.04    0.49    0.74    0.62    1   4270341 65  48  33  TF-03-06    787.747
2449644.077 309587.3    1.49568 1.11    0.37    0.64    0.58    1   5275655 80  54  46  TF-03-06    787.747
2449644.077 309587.3    1.5908  1.16    0.37    0.72    0.6 1   5273042 80  51  36  TF-03-06    787.747
2449644.077 309587.3    1.6564  1   0.5 0.8 0.64    1   4184494 64  46  26  TF-03-06    787.747
2449644.077 309587.3    1.7548  1.06    0.49    0.83    0.66    1   4267400 65  43  22  TF-03-06    787.747
2449644.077 309587.3    1.8204  0.78    0.67    1   0.74    0.79    3336478 51  40  0   TF-03-06    787.747
2449644.077 309587.3    1.9188  0.98    0.51    0.79    0.67    1   4101584 62  42  27  TF-03-06    787.747
2449644.077 309587.3    2.0172  0.95    0.48    0.83    0.67    1   4350629 66  42  22  TF-03-06    787.747
2449644.077 309587.3    2.0828  0.97    0.47    0.83    0.66    1   4434516 68  43  22  TF-03-06    787.747
2449644.077 309587.3    2.18448 1.05    0.42    0.71    0.6 1   4855905 74  51  37  TF-03-06    787.747
2449644.077 309587.3    2.27632 0.98    0.52    0.86    0.69    1   4015412 61  40  18  TF-03-06    787.747
2449644.077 309587.3    2.34192 0.88    0.46    0.79    0.65    1   4519051 69  45  27  TF-03-06    787.747
2449644.077 309587.3    2.44032 0.89    0.51    0.8 0.64    1   4101263 62  46  26  TF-03-06    787.747
2449644.077 309587.3    2.542   1.09    0.41    0.69    0.6 1   4940444 75  51  40  TF-03-06    787.747
2449644.077 309587.3    2.58792 1   0.48    0.7 0.6 1   4354880 66  51  38  TF-03-06    787.747
2449644.077 309587.3    2.60104 1.03    0.47    0.72    0.63    1   4438109 68  47  36  TF-03-06    787.747
2449644.077 309587.3    2.62072 0.88    0.61    0.84    0.74    1   3263705 50  33  20  TF-03-06    787.747
2449644.077 309587.3    2.71256 1.02    0.37    0.66    0.56    1   5275005 80  56  43  TF-03-06    787.747
2449644.077 309587.3    2.78144 1.13    0.34    0.65    0.54    1   5526336 84  59  45  TF-03-06    787.747
2449644.077 309587.3    2.88312 0.76    0.57    0.96    0.78    1   3594017 55  28  5   TF-03-06    787.747
2449644.077 309587.3    2.952   1   0.51    0.83    0.65    1   4100284 62  45  22  TF-03-06    787.747
2449644.077 309587.3    3.05368 1.28    0.47    0.8 0.59    1   4435503 68  52  26  TF-03-06    787.747
2449644.077 309587.3    3.15864 1.03    0.55    0.87    0.69    1   3764084 57  40  17  TF-03-06    787.747
2449644.077 309587.3    3.22752 1.02    0.39    0.72    0.58    1   5105927 78  54  36  TF-03-06    787.747
2449644.077 309587.3    3.33248 0.91    0.61    0.98    0.7 1   3259141 50  38  3   TF-03-06    787.747
2449644.077 309587.3    3.43744 1.13    0.61    0.88    0.67    1   3262409 50  42  15  TF-03-06    787.747
2449644.077 309587.3    3.50632 1.02    0.52    0.86    0.66    1   4015416 61  43  18  TF-03-06    787.747
2449644.077 309587.3    3.61128 1.1 0.43    0.75    0.6 1   4771369 73  51  32  TF-03-06    787.747
2449644.077 309587.3    3.68344 1.03    0.56    0.91    0.72    1   3679542 56  36  11  TF-03-06    787.747
2449644.077 309587.3    3.7884  1.05    0.67    1   0.73    0.96    2867891 44  36  0   TF-03-06    787.747
2449644.077 309587.3    3.89664 1.06    0.69    1   0.72    0.96    2694222 41  37  0   TF-03-06    787.747
2449644.077 309587.3    3.96552 1.14    0.66    1   0.68    0.92    3068440 47  44  0   TF-03-06    787.747
2449644.077 309587.3    4.07376 1.19    0.53    0.9 0.63    1   3930228 60  47  13  TF-03-06    787.747
2449644.077 309587.3    4.17872 1.03    0.66    0.99    0.71    1   2841350 43  37  1   TF-03-06    787.747
2449644.077 309587.3    4.25088 1.18    0.77    1   0.78    0.99    1941205 30  28  0   TF-03-06    787.747
2449644.077 309587.3    4.35584 1.08    0.62    1   0.69    0.94    3365971 51  42  0   TF-03-06    787.747
2449644.077 309587.3    4.428   1.26    0.61    1   0.69    0.98    3324026 51  40  0   TF-03-06    787.747
2449644.077 309587.3    4.53296 1.34    0.73    1   0.69    0.82    2662119 41  47  0   TF-03-06    787.747
2449644.077 309587.3    4.6412  1.16    0.64    1   0.71    0.94    3188366 49  39  0   TF-03-06    787.747
2449644.077 309587.3    4.71336 1.01    0.56    0.92    0.73    1   3679215 56  34  10  TF-03-06    787.747
2449644.077 309587.3    4.81832 1.25    0.68    1   0.62    0.82    3154960 48  57  0   TF-03-06    787.747
2449644.077 309587.3    4.89048 1.5 0.7 1   0.65    0.79    3033060 46  54  0   TF-03-06    787.747
2449644.077 309587.3    4.99872 1.34    0.71    1   0.66    0.64    3295864 50  59  0   TF-03-06    787.747
2449644.077 309587.3    5.10368 1.2 0.65    0.96    0.74    1   2925555 45  33  5   TF-03-06    787.747
2449644.077 309587.3    5.16928 1.46    0.71    1   0.69    0.96    2519900 38  41  0   TF-03-06    787.747
2449644.077 309587.3    5.27752 1.39    0.58    0.98    0.68    1   3510146 54  41  3   TF-03-06    787.747
2449644.077 309587.3    5.38576 0.98    0.5 0.76    0.66    1   4185797 64  43  31  TF-03-06    787.747
2449644.077 309587.3    5.45464 1.01    0.47    0.7 0.63    1   4438762 68  47  38  TF-03-06    787.747
```

```
2449644.077 309587.3    5.56616 0.78    0.65    0.92    0.83    1   2926849 45  22  10  TF-03-06    787.747
2449644.077 309587.3    5.67112 1.08    0.47    0.7 0.61    1   4438765 68  50  38  TF-03-06    787.747
2449644.077 309587.3    5.74    1.11    0.63    1   0.68    0.91    3369906 51  44  0   TF-03-06    787.747
2449644.077 309587.3    5.79248 1.32    0.7 1   0.73    0.96    2607058 40  36  0   TF-03-06    787.747
2449644.077 309587.3    5.79576 1.23    0.72    1   0.66    0.84    2713896 41  50  0   TF-03-06    787.747
2449644.077 309587.3    5.79904 1.23    0.6 1   0.66    0.79    4044279 62  52  0   TF-03-06    787.747
2449644.077 309587.3    5.82528 1.17    0.52    0.89    0.67    1   4014434 61  42  14  TF-03-06    787.747
2449644.077 309587.3    5.88432 1.17    0.52    0.87    0.65    1   4015092 61  45  17  TF-03-06    787.747
2449644.077 309587.3    5.97944 1.82    0.64    1   0.52    0.5 4512245 69  92  0   TF-03-06    787.747
2449644.077 309587.3    6.0188  2.01    0.62    1   0.56    0.62    4381814 67  77  0   TF-03-06    787.747
2449644.077 309587.3    6.1172  1.79    0.55    1   0.53    0.71    4850397 74  77  0   TF-03-06    787.747
2449644.077 309587.3    6.21888 1.33    0.54    1   0.65    0.91    4189765 64  49  0   TF-03-06    787.747
2449644.077 309587.3    6.31728 1.38    0.6 1   0.48    0.28    5748932 88  114 0   TF-03-06    787.747
2449644.077 309587.3    6.35336 2.6 0.67    1   0.53    0.52    4081015 62  89  0   TF-03-06    787.747
2449644.077 309587.3    6.42552 3.03    0.52    1   0.37    0.26    6979068 106 140 0   TF-03-06    787.747
2449644.077 309587.3    6.50424 4.74    0.52    1   0.37    0.24    7059024 108 141 0   TF-03-06    787.747
2449644.077 309587.3    6.5272  4.41    0.5 1   0.36    0.2 7520403 115 147 0   TF-03-06    787.747
2449644.077 309587.3    6.55672 3.05    0.55    1   0.36    0.26    6542601 100 142 0   TF-03-06    787.747
2449644.077 309587.3    6.62232 2.71    0.47    1   0.34    0.32    7440443 114 141 0   TF-03-06    787.747
2449644.077 309587.3    6.68792 4.9 0.52    1   0.29    0.19    7259587 111 164 0   TF-03-06    787.747
2449644.077 309587.3    6.76992 3.93    0.54    1   0.3 0.22    6842117 104 159 0   TF-03-06    787.747
2449644.077 309587.3    6.81584 2.27    0.55    1   0.37    0.36    6167069 94  132 0   TF-03-06    787.747
2449644.077 309587.3    6.84864 1.87    0.57    1   0.47    0.62    4958547 76  93  0   TF-03-06    787.747
2449644.077 309587.3    6.94376 3.06    0.51    1   0.34    0.29    7001355 107 144 0   TF-03-06    787.747
2449644.077 309587.3    7.04872 1.24    0.54    1   0.57    0.67    5111881 78  73  0   TF-03-06    787.747
2449644.077 309587.3    7.05856 1   0.44    0.76    0.63    1   4687151 71  47  31  TF-03-06    787.747
2449644.077 309587.3    7.14056 0.88    0.44    0.81    0.66    1   4685514 71  43  24  TF-03-06    787.747
2449644.077 309587.3    7.23896 0.89    0.52    0.91    0.72    1   4013775 61  36  11  TF-03-06    787.747
2449644.077 309587.3    7.28488 1.78    0.5 1   0.49    0.45    6475713 99  101 0   TF-03-06    787.747
2449644.077 309587.3    7.30456 1.56    0.48    1   0.48    0.49    6560909 100 100 0   TF-03-06    787.747
2449696.033 309627.496  0   1.17    0.32    0.61    0.42    1   5694773 87  74  50  TF-03-07    787.851
2449696.033 309627.496  0.01312 1.12    0.72    0.83    0.53    1   2345245 36  60  22  TF-03-07    787.851
2449696.033 309627.496  0.07216 1.21    0.61    0.79    0.52    1   3265364 50  61  27  TF-03-07    787.851
2449696.033 309627.496  0.17712 1.28    0.59    0.75    0.48    1   3434450 52  66  32  TF-03-07    787.851
2449696.033 309627.496  0.1804  1.25    0.59    0.75    0.51    1   3434446 52  62  32  TF-03-07    787.851
2449696.033 309627.496  0.26568 1.33    0.75    0.99    0.58    1   2089669 32  54  1   TF-03-07    787.851
2449696.033 309627.496  0.33456 1.74    0.73    0.97    0.63    1   2257432 34  47  4   TF-03-07    787.851
2449696.033 309627.496  0.43952 1.76    0.6 0.83    0.75    1   3347918 51  32  22  TF-03-07    787.851
2449696.033 309627.496  0.54776 1.55    0.59    0.84    0.69    1   3431484 52  40  20  TF-03-07    787.851
2449696.033 309627.496  0.61664 1.48    0.62    0.81    0.59    1   3181472 48  52  24  TF-03-07    787.851
2449696.033 309627.496  0.72816 1.46    0.58    0.78    0.59    1   3516686 54  52  28  TF-03-07    787.851
2449696.033 309627.496  0.80032 1.36    0.72    0.89    0.64    1   2343270 36  46  14  TF-03-07    787.851
2449696.033 309627.496  0.90528 1.39    0.7 0.88    0.57    1   2510724 38  55  15  TF-03-07    787.851
2449696.033 309627.496  1.01352 1.52    0.64    0.83    0.57    1   3013707 46  55  22  TF-03-07    787.851
2449696.033 309627.496  1.0824  1.4 0.62    0.78    0.53    1   3182460 48  60  28  TF-03-07    787.851
2449696.033 309627.496  1.19064 1.42    0.68    0.82    0.54    1   2679803 41  59  23  TF-03-07    787.851
2449696.033 309627.496  1.2628  1.47    0.65    0.8 0.53    1   2930804 45  60  26  TF-03-07    787.851
2449696.033 309627.496  1.36776 1.42    0.63    0.81    0.52    1   3098250 47  61  24  TF-03-07    787.851
2449696.033 309627.496  1.47928 1.43    0.66    0.86    0.57    1   2845610 43  55  18  TF-03-07    787.851
2449696.033 309627.496  1.55144 1.48    0.57    0.75    0.48    1   3600911 55  66  32  TF-03-07    787.851
2449696.033 309627.496  1.6564  1.35    0.75    1   0.61    0.98    2130626 33  51  0   TF-03-07    787.851
2449696.033 309627.496  1.76792 1.5 0.6 0.79    0.52    1   3349250 51  61  27  TF-03-07    787.851
2449696.033 309627.496  1.84008 1.36    0.69    0.9 0.57    1   2593957 40  55  13  TF-03-07    787.851
2449696.033 309627.496  1.94504 1.39    0.7 0.92    0.56    1   2509419 38  56  10  TF-03-07    787.851
2449696.033 309627.496  2.05328 1.27    0.72    0.91    0.55    1   2342629 36  57  11  TF-03-07    787.851
2449696.033 309627.496  2.12544 1.34    0.7 0.9 0.57    1   2510071 38  55  13  TF-03-07    787.851
2449696.033 309627.496  2.23368 1.4 0.73    0.89    0.58    1   2260047 34  54  14  TF-03-07    787.851
2449696.033 309627.496  2.34192 1.51    0.77    1   0.57    0.88    2152264 33  61  0   TF-03-07    787.851
2449696.033 309627.496  2.41408 1.62    0.75    1   0.52    0.82    2464881 38  72  0   TF-03-07    787.851
2449696.033 309627.496  2.52232 1.53    0.83    1   0.59    0.99    1434636 22  53  0   TF-03-07    787.851
2449696.033 309627.496  2.53544 1.61    0.78    1   0.58    0.99    1856689 28  54  0   TF-03-07    787.851
2449696.033 309627.496  2.542   1.63    0.76    1   0.55    0.87    2266300 35  65  0   TF-03-07    787.851
2449696.033 309627.496  2.60104 1.69    0.73    0.91    0.53    1   2259401 34  60  11  TF-03-07    787.851
2449696.033 309627.496  2.71256 1.37    0.89    1   0.6 0.94    974574  15  54  0   TF-03-07    787.851
2449696.033 309627.496  2.788   1.54    0.75    0.9 0.56    1   2092608 32  56  13  TF-03-07    787.851
2449696.033 309627.496  2.9028  1.79    0.83    1   0.54    0.86    1619461 25  67  0   TF-03-07    787.851
2449696.033 309627.496  3.01104 1.61    0.77    1   0.48    0.76    2382971 36  82  0   TF-03-07    787.851
2449696.033 309627.496  3.07992 1.45    0.81    1   0.51    0.86    1810176 28  71  0   TF-03-07    787.851
2449696.033 309627.496  3.1816  1.49    0.84    1   0.53    0.97    1376973 21  62  0   TF-03-07    787.851
2449696.033 309627.496  3.25048 1.41    0.87    1   0.53    0.83    1270813 19  70  0   TF-03-07    787.851
2449696.033 309627.496  3.35872 1.62    0.86    1   0.57    0.99    1181669 18  55  0   TF-03-07    787.851
2449696.033 309627.496  3.4604  1.73    0.89    1   0.51    0.82    1084695 17  74  0   TF-03-07    787.851
2449696.033 309627.496  3.52928 1.93    0.79    1   0.51    0.81    2088051 32  74  0   TF-03-07    787.851
2449696.033 309627.496  3.63424 1.98    0.8 1   0.53    0.89    1854735 28  67  0   TF-03-07    787.851
2449696.033 309627.496  3.7392  1.78    0.8 1   0.49    0.79    2021864 31  79  0   TF-03-07    787.851
2449696.033 309627.496  3.80808 1.58    0.83    1   0.53    0.92    1534262 23  65  0   TF-03-07    787.851
2449696.033 309627.496  3.90976 1.31    0.64    0.73    0.49    1   3016982 46  65  34  TF-03-07    787.851
2449696.033 309627.496  3.97864 1.27    0.69    0.78    0.49    1   2597884 40  65  28  TF-03-07    787.851
2449696.033 309627.496  4.08032 1.2 0.72    0.84    0.53    1   2344918 36  60  20  TF-03-07    787.851
2449696.033 309627.496  4.18528 1.33    0.69    0.8 0.5 1   2597230 40  64  26  TF-03-07    787.851
2449696.033 309627.496  4.25744 1.41    0.86    0.99    0.56    1   1170201 18  56  1   TF-03-07    787.851
2449696.033 309627.496  4.35584 1.36    0.65    0.77    0.51    1   2931785 45  62  29  TF-03-07    787.851
2449696.033 309627.496  4.428   1.34    0.59    0.68    0.47    1   3436734 52  68  41  TF-03-07    787.851
2449696.033 309627.496  4.53296 1.44    0.55    0.66    0.47    1   3770966 57  68  43  TF-03-07    787.851
2449696.033 309627.496  4.63792 1.34    0.84    1   0.47    0.85    1537552 23  78  0   TF-03-07    787.851
2449696.033 309627.496  4.71008 1.69    0.84    1   0.53    0.95    1403844 21  63  0   TF-03-07    787.851
2449696.033 309627.496  4.81504 1.58    0.88    1   0.5 0.72    1283276 20  82  0   TF-03-07    787.851
2449696.033 309627.496  4.91672 2.23    0.81    1   0.48    0.62    2190960 33  91  0   TF-03-07    787.851
2449696.033 309627.496  4.98888 2.35    0.71    1   0.45    0.75    3029162 46  88  0   TF-03-07    787.851
2449696.033 309627.496  5.09056 1.67    0.75    1   0.45    0.72    2673959 41  90  0   TF-03-07    787.851
2449696.033 309627.496  5.19552 1.63    0.78    1   0.54    0.97    1893395 29  60  0   TF-03-07    787.851
2449696.033 309627.496  5.30048 1.29    0.9 1   0.59    0.96    869062  13  54  0   TF-03-07    787.851
2449696.033 309627.496  5.36936 1.44    0.74    0.92    0.53    1   2175190 33  60  10  TF-03-07    787.851
2449696.033 309627.496  5.4776  1.52    0.83    1   0.55    0.9 1562441 24  63  0   TF-03-07    787.851
2449696.033 309627.496  5.58256 1.46    0.77    0.96    0.53    1   1922881 29  60  5   TF-03-07    787.851
2449696.033 309627.496  5.62192 1.41    0.76    0.9 0.56    1   2008722 31  56  13  TF-03-07    787.851
2449696.033 309627.496  5.62848 2.67    0.82    1   0.49    0.99    1519190 23  66  0   TF-03-07    787.851
2449696.033 309627.496  5.70064 2.78    0.83    1   0.47    0.94    1506089 23  72  0   TF-03-07    787.851
2449696.033 309627.496  5.80888 2.93    0.82    1   0.46    0.92    1624712 25  74  0   TF-03-07    787.851
2449696.033 309627.496  5.87776 2.92    0.83    1   0.48    0.92    1534269 23  72  0   TF-03-07    787.851
2449696.033 309627.496  5.986   3.17    0.82    1   0.45    0.9 1654861 25  77  0   TF-03-07    787.851
2449696.033 309627.496  6.05816 3.45    0.77    1   0.43    0.8 2306299 35  87  0   TF-03-07    787.851
```

```
2449696.033 309627.496  6.1664  4.14    0.81    1   0.48    0.87    1793795 27  75  0   TF-03-07    787.851
2449696.033 309627.496  6.27464 3.07    0.82    1   0.46    0.9 1654860 25  76  0   TF-03-07    787.851
2449696.033 309627.496  6.38288 3.05    0.73    0.91    0.47    1   2259408 34  68  11  TF-03-07    787.851
2449696.033 309627.496  6.45504 3.5 0.71    0.81    0.46    1   2429790 37  69  24  TF-03-07    787.851
2449696.033 309627.496  6.56656 2.47    0.73    0.94    0.46    1   2258432 34  69  8   TF-03-07    787.851
2449696.033 309627.496  6.6748  3.47    0.71    0.8 0.46    1   2430118 37  69  26  TF-03-07    787.851
2449696.033 309627.496  6.74696 4.17    0.7 0.79    0.46    1   2513674 38  69  27  TF-03-07    787.851
2449696.033 309627.496  6.85848 3.19    0.73    0.94    0.47    1   2258430 34  68  8   TF-03-07    787.851
2449696.033 309627.496  6.93064 3.25    0.7 0.81    0.45    1   2513022 38  70  24  TF-03-07    787.851
2449696.033 309627.496  7.04216 3.63    0.69    0.79    0.44    1   2597563 40  71  27  TF-03-07    787.851
2449696.033 309627.496  7.15368 4.44    0.68    0.74    0.46    1   2682424 41  69  33  TF-03-07    787.851
2449696.033 309627.496  7.22584 3.13    0.72    0.84    0.46    1   2344926 36  69  20  TF-03-07    787.851
2449696.033 309627.496  7.34064 3.8 0.67    0.75    0.44    1   2765988 42  71  32  TF-03-07    787.851
2449696.033 309627.496  7.45216 3.1 0.72    0.8 0.45    1   2346233 36  70  26  TF-03-07    787.851
2449696.033 309627.496  7.5276  3.63    0.7 0.76    0.44    1   2514657 38  71  31  TF-03-07    787.851
2449696.033 309627.496  7.6424  3.81    0.68    0.76    0.46    1   2681771 41  69  31  TF-03-07    787.851
2449696.033 309627.496  7.71784 4.38    0.71    0.82    0.46    1   2429465 37  69  23  TF-03-07    787.851
2449696.033 309627.496  7.82936 4.3 0.77    1   0.49    0.91    2094601 32  71  0   TF-03-07    787.851
2449696.033 309627.496  7.94088 6.24    0.74    1   0.47    0.79    2628731 40  82  0   TF-03-07    787.851
2449696.033 309627.496  8.01304 5.45    0.75    1   0.44    0.71    2694932 41  92  0   TF-03-07    787.851
2449696.033 309627.496  8.12456 5.52    0.8 1   0.52    0.95    1754463 27  64  0   TF-03-07    787.851
2449696.033 309627.496  8.2328  4.35    0.78    1   0.45    0.75    2297780 35  88  0   TF-03-07    787.851
2449696.033 309627.496  8.30496 4.96    0.78    1   0.48    0.83    2150969 33  78  0   TF-03-07    787.851
2449696.033 309627.496  8.41976 5.23    0.79    1   0.5 0.87    1983191 30  72  0   TF-03-07    787.851
2449696.033 309627.496  8.528   3.78    0.82    1   0.51    0.96    1564409 24  65  0   TF-03-07    787.851
2449696.033 309627.496  8.59032 3.31    0.77    0.95    0.49    1   1923214 29  65  6   TF-03-07    787.851
2449696.033 309627.496  8.5936  2.26    0.76    0.96    0.47    1   2006775 31  68  5   TF-03-07    787.851
2449696.033 309627.496  8.61984 2.77    0.75    0.92    0.48    1   2091965 32  66  10  TF-03-07    787.851
2449696.033 309627.496  8.70184 2.56    0.71    0.85    0.44    1   2428490 37  71  19  TF-03-07    787.851
2449696.033 309627.496  8.81008 2.4 0.75    0.9 0.45    1   2092622 32  70  13  TF-03-07    787.851
2449696.033 309627.496  8.87896 2.55    0.7 0.89    0.47    1   2510409 38  68  14  TF-03-07    787.851
2449696.033 309627.496  8.9872  2.23    0.75    1   0.46    0.99    2109673 32  70  0   TF-03-07    787.851
2449696.033 309627.496  9.05936 2.14    0.81    1   0.46    1   1587351 24  69  0   TF-03-07    787.851
2449696.033 309627.496  9.1676  2.1 0.74    1   0.45    0.95    2281382 35  74  0   TF-03-07    787.851
2449696.033 309627.496  9.27584 1.69    0.81    1   0.44    0.94    1683040 26  76  0   TF-03-07    787.851
2449696.033 309627.496  9.35128 1.4 0.83    1   0.42    0.86    1619479 25  84  0   TF-03-07    787.851
2449696.033 309627.496  9.4628  1.74    0.76    0.93    0.46    1   2007754 31  69  9   TF-03-07    787.851
2449696.033 309627.496  9.57104 1.47    0.81    1   0.47    1   1587350 24  68  0   TF-03-07    787.851
2449696.033 309627.496  9.64648 1.83    0.76    1   0.48    0.95    2105741 32  70  0   TF-03-07    787.851
2449696.033 309627.496  9.75472 1.76    0.78    1   0.45    0.91    2003512 31  76  0   TF-03-07    787.851
2449696.033 309627.496  9.86952 1.91    0.78    1   0.48    0.92    1985157 30  72  0   TF-03-07    787.851
2449696.033 309627.496  9.94496 1.75    0.76    1   0.47    0.92    2166038 33  73  0   TF-03-07    787.851
2449696.033 309627.496  10.0532 1.81    0.77    0.95    0.5 1   1923213 29  64  6   TF-03-07    787.851
2449696.033 309627.496  10.16472    1.71    0.75    0.95    0.49    1   2090986 32  65  6   TF-03-07    787.851
2449696.033 309627.496  10.23688    1.45    0.77    1   0.51    0.96    1998913 30  65  0   TF-03-07    787.851
2449696.033 309627.496  10.3484 1.42    0.76    0.99    0.51    1   2005792 31  62  1   TF-03-07    787.851
2449696.033 309627.496  10.45992    1.68    0.73    0.91    0.51    1   2259403 34  62  11  TF-03-07    787.851
2449696.033 309627.496  10.53208    1.55    0.74    1   0.5 0.95    2281375 35  67  0   TF-03-07    787.851
2449696.033 309627.496  10.6436 1.56    0.79    0.99    0.54    1   1754785 27  59  1   TF-03-07    787.851
2449696.033 309627.496  10.71904    1.58    0.81    1   0.56    0.97    1635181 25  58  0   TF-03-07    787.851
2449696.033 309627.496  10.82728    1.73    0.76    0.98    0.54    1   2006113 31  59  3   TF-03-07    787.851
2449696.033 309627.496  10.9388 1.6 0.78    0.98    0.51    1   1839000 28  62  3   TF-03-07    787.851
2449696.033 309627.496  11.01424    1.58    0.74    1   0.47    0.9 2390172 36  74  0   TF-03-07    787.851
2449696.033 309627.496  11.12248    1.53    0.78    1   0.51    1   1838347 28  62  0   TF-03-07    787.851
2449696.033 309627.496  11.234  1.33    0.73    0.91    0.49    1   2259406 34  65  11  TF-03-07    787.851
2449696.033 309627.496  11.30616    1.36    0.82    1   0.54    0.99    1519184 23  59  0   TF-03-07    787.851
2449696.033 309627.496  11.4144 1.46    0.78    0.96    0.55    1   1839648 28  57  5   TF-03-07    787.851
2449696.033 309627.496  11.48984    1.48    0.69    0.92    0.49    1   2593314 40  65  10  TF-03-07    787.851
2449696.033 309627.496  11.59808    1.55    0.77    0.99    0.51    1   1921906 29  62  1   TF-03-07    787.851
2449696.033 309627.496  11.60464    1.31    0.78    1   0.52    0.9 2022508 31  67  0   TF-03-07    787.851
2449696.033 309627.496  11.60792    1.89    0.81    1   0.53    0.93    1698757 26  64  0   TF-03-07    787.851
2449696.033 309627.496  11.6112 1.72    0.83    0.98    0.54    1   1421532 22  59  3   TF-03-07    787.851
2449696.033 309627.496  11.66696    1.49    0.8 1   0.54    0.99    1687611 26  59  0   TF-03-07    787.851
2449696.033 309627.496  11.74896    1.46    0.75    0.93    0.55    1   2091629 32  57  9   TF-03-07    787.851
2449696.033 309627.496  11.81784    1.69    0.73    0.94    0.51    1   2258425 34  62  8   TF-03-07    787.851
2449696.033 309627.496  11.92936    1.9 0.78    1   0.49    0.92    1985156 30  70  0   TF-03-07    787.851
2449696.033 309627.496  12.0048 1.8 0.79    1   0.52    0.99    1772155 27  62  0   TF-03-07    787.851
2449696.033 309627.496  12.11304    1.86    0.75    1   0.42    0.75    2611047 40  92  0   TF-03-07    787.851
2449696.033 309627.496  12.22456    1.77    0.82    1   0.52    0.89    1669270 25  68  0   TF-03-07    787.851
2449696.033 309627.496  12.3    1.99    0.82    1   0.5 0.99    1519189 23  64  0   TF-03-07    787.851
2449696.033 309627.496  12.40824    2.38    0.85    1   0.49    0.98    1278674 20  66  0   TF-03-07    787.851
2449696.033 309627.496  12.52304    2.59    0.8 0.96    0.48    1   1672540 26  66  5   TF-03-07    787.851
2449696.033 309627.496  12.5952 2.57    0.83    1   0.48    0.93    1519851 23  71  0   TF-03-07    787.851
2449696.033 309627.496  12.69688    2.76    0.85    1   0.53    0.99    1266216 19  61  0   TF-03-07    787.851
2449696.033 309627.496  12.72312    3.29    0.85    1   0.51    0.89    1391399 21  69  0   TF-03-07    787.851
2449696.033 309627.496  12.83792    3.68    0.87    1   0.57    0.96    1129898 17  57  0   TF-03-07    787.851
2449696.033 309627.496  12.95272    3.12    0.86    1   0.54    0.9 1287192 20  65  0   TF-03-07    787.851
2449696.033 309627.496  13.03144    3.65    0.89    1   0.58    1   918868  14  54  0   TF-03-07    787.851
2449696.033 309627.496  13.14296    2.36    0.85    1   0.51    0.94    1328481 20  66  0   TF-03-07    787.851
2449696.033 309627.496  13.2184 2.73    0.86    0.98    0.57    1   1170525 18  55  3   TF-03-07    787.851
2449696.033 309627.496  13.32992    2.93    0.88    1   0.53    0.93    1072888 16  64  0   TF-03-07    787.851
2449696.033 309627.496  13.44144    3.27    0.88    1   0.53    0.96    1042740 16  62  0   TF-03-07    787.851
2449696.033 309627.496  13.5136 2.86    0.89    1   0.55    0.96    956230  15  60  0   TF-03-07    787.851
2449696.033 309627.496  13.62512    3.25    0.87    1   0.52    0.97    1118763 17  63  0   TF-03-07    787.851
2449696.033 309627.496  13.73664    3.16    0.86    0.98    0.55    1   1170528 18  57  3   TF-03-07    787.851
2449696.033 309627.496  13.8088 3.04    0.88    1   0.52    0.94    1063059 16  65  0   TF-03-07    787.851
2449696.033 309627.496  13.9236 3.38    0.86    1   0.54    0.99    1181673 18  59  0   TF-03-07    787.851
2449696.033 309627.496  13.99904    2.97    0.84    0.96    0.53    1   1338300 20  60  5   TF-03-07    787.851
2449696.033 309627.496  14.10728    2.97    0.86    1   0.53    0.99    1181675 18  61  0   TF-03-07    787.851
2449696.033 309627.496  14.22208    2.89    0.86    1   0.55    0.99    1181672 18  58  0   TF-03-07    787.851
2449696.033 309627.496  14.29424    2.21    0.81    0.95    0.52    1   1588976 24  61  6   TF-03-07    787.851
2449696.033 309627.496  14.40576    2.17    0.82    1   0.5 0.96    1564411 24  66  0   TF-03-07    787.851
2449696.033 309627.496  14.51728    2.62    0.85    1   0.49    0.95    1316031 20  68  0   TF-03-07    787.851
2449696.033 309627.496  14.59272    2.54    0.83    1   0.49    0.88    1591287 24  73  0   TF-03-07    787.851
2449696.033 309627.496  14.70096    2.62    0.88    1   0.54    0.96    1042739 16  61  0   TF-03-07    787.851
2449696.033 309627.496  14.81576    3.15    0.84    1   0.51    0.89    1483804 23  69  0   TF-03-07    787.851
2449696.033 309627.496  14.88792    2.89    0.87    1   0.52    0.95    1140391 17  64  0   TF-03-07    787.851
2449696.033 309627.496  14.9732 2.75    0.86    1   0.5 0.85    1345527 21  73  0   TF-03-07    787.851
2449696.033 309627.496  15.04536    2.51    0.76    1   0.45    0.75    2506840 38  88  0   TF-03-07    787.851
2449696.033 309627.496  15.18968    2.5 0.8 1   0.52    1   1671229 26  61  0   TF-03-07    787.851
2449696.033 309627.496  15.3012 2.57    0.81    0.96    0.57    1   1588642 24  55  5   TF-03-07    787.851
2449696.033 309627.496  15.37664    2.24    0.83    1   0.53    0.95    1491662 23  63  0   TF-03-07    787.851
```

```
2449696.033 309627.496  15.48488    2.82    0.82    0.97    0.52    1   1505093 23  61  4   TF-03-07    787.851
2449696.033 309627.496  15.5964 2.51    0.82    0.97    0.56    1   1505088 23  56  4   TF-03-07    787.851
2449696.033 309627.496  15.66856    2.1 0.73    0.91    0.55    1   2259398 34  57  11  TF-03-07    787.851
2449696.033 309627.496  15.67184    1.83    0.69    0.94    0.58    1   2592650 40  54  8   TF-03-07    787.851
2449696.033 309627.496  15.68496    3.41    0.8 0.96    0.55    1   1672531 26  57  5   TF-03-07    787.851
2449696.033 309627.496  15.78336    3.27    0.75    0.89    0.53    1   2092937 32  60  14  TF-03-07    787.851
2449696.033 309627.496  15.88832    3.34    0.8 0.93    0.55    1   1673509 26  57  9   TF-03-07    787.851
2449696.033 309627.496  15.9572 3.03    0.8 0.93    0.56    1   1673508 26  56  9   TF-03-07    787.851
2449696.033 309627.496  16.06872    2.57    0.77    0.87    0.53    1   1925820 29  60  17  TF-03-07    787.851
2449696.033 309627.496  16.14088    2.28    0.78    0.95    0.56    1   1839974 28  56  6   TF-03-07    787.851
2449696.033 309627.496  16.24912    1.95    0.83    0.97    0.56    1   1421857 22  56  4   TF-03-07    787.851
2449696.033 309627.496  16.35736    2.2 0.78    0.95    0.54    1   1839977 28  59  6   TF-03-07    787.851
2449696.033 309627.496  16.42952    2.54    0.86    0.99    0.56    1   1170201 18  56  1   TF-03-07    787.851
2449696.033 309627.496  16.53776    2.91    0.78    0.93    0.52    1   1840630 28  61  9   TF-03-07    787.851
2449696.033 309627.496  16.64928    2.66    0.83    0.98    0.53    1   1421533 22  60  3   TF-03-07    787.851
2449696.033 309627.496  16.72144    3.15    0.79    0.96    0.52    1   1755766 27  61  5   TF-03-07    787.851
2449696.033 309627.496  16.83296    2.96    0.8 1   0.49    0.93    1787892 27  70  0   TF-03-07    787.851
2449696.033 309627.496  16.9084 2.81    0.8 0.94    0.52    1   1673188 26  61  8   TF-03-07    787.851
2449696.033 309627.496  17.01664    3.17    0.81    0.94    0.54    1   1589299 24  59  8   TF-03-07    787.851
2449696.033 309627.496  17.12816    3.2 0.82    0.97    0.54    1   1505090 23  59  4   TF-03-07    787.851
2449696.033 309627.496  17.20032    2.85    0.82    0.96    0.55    1   1505414 23  57  5   TF-03-07    787.851
2449696.033 309627.496  17.30856    3.06    0.8 0.94    0.54    1   1673185 26  59  8   TF-03-07    787.851
2449696.033 309627.496  17.384  2.98    0.85    1   0.55    0.98    1278666 20  59  0   TF-03-07    787.851
2449696.033 309627.496  17.49224    3.2 0.78    0.95    0.54    1   1839977 28  59  6   TF-03-07    787.851
2449696.033 309627.496  17.5644 2.97    0.8 1   0.52    0.98    1704654 26  62  0   TF-03-07    787.851
2449696.033 309627.496  17.67592    1.98    0.83    1   0.49    0.94    1506086 23  69  0   TF-03-07    787.851
2449696.033 309627.496  17.78088    2.3 0.74    0.93    0.49    1   2174867 33  65  9   TF-03-07    787.851
2449696.033 309627.496  17.89568    2.46    0.7 0.91    0.5 1   2509752 38  64  11  TF-03-07    787.851
2449696.033 309627.496  17.96784    2.33    0.75    0.9 0.48    1   2092618 32  66  13  TF-03-07    787.851
2449696.033 309627.496  18.07608    2.21    0.77    1   0.49    0.94    2036928 31  69  0   TF-03-07    787.851
2449696.033 309627.496  18.15152    1.89    0.74    1   0.5 0.85    2498306 38  73  0   TF-03-07    787.851
2449696.033 309627.496  18.26304    1.89    0.77    1   0.5 0.96    1998914 30  66  0   TF-03-07    787.851
2449696.033 309627.496  18.37456    1.9 0.81    1   0.48    0.98    1619462 25  68  0   TF-03-07    787.851
2449696.033 309627.496  18.44344    2.24    0.76    0.91    0.52    1   2008399 31  61  11  TF-03-07    787.851
2449696.033 309627.496  18.55496    1.9 0.73    1   0.43    0.85    2594654 40  84  0   TF-03-07    787.851
2449696.033 309627.496  18.62712    2.06    0.78    1   0.5 0.93    1966804 30  68  0   TF-03-07    787.851
2449696.033 309627.496  18.7288 2.79    0.74    0.95    0.52    1   2174213 33  61  6   TF-03-07    787.851
2449696.033 309627.496  18.75504    2.69    0.76    0.97    0.52    1   2006443 31  61  4   TF-03-07    787.851
2449696.033 309627.496  18.778  2.37    0.76    1   0.52    0.98    2045441 31  62  0   TF-03-07    787.851
2449696.033 309627.496  18.79768    2.79    0.74    1   0.54    0.96    2259742 34  61  0   TF-03-07    787.851
2449621.488 309562.523  0   1.19    0.4 0.61    0.61    1   5026282 76  50  50  TF-03-08    787.944
2449621.488 309562.523  0.08856 1.1 0.34    0.55    0.57    1   5529596 84  55  57  TF-03-08    787.944
2449621.488 309562.523  0.12792 1.04    0.35    0.64    0.62    1   5443423 83  48  46  TF-03-08    787.944
2449621.488 309562.523  0.22632 1.9 0.68    1   0.81    0.94    2834458 43  26  0   TF-03-08    787.944
2449621.488 309562.523  0.2952  1.78    0.65    0.91    0.88    1   2927168 45  15  11  TF-03-08    787.944
2449621.488 309562.523  0.3936  1.64    0.59    1   0.72    0.8 4111116 63  43  0   TF-03-08    787.944
2449621.488 309562.523  0.49528 1.59    0.43    0.8 0.74    1   4769718 73  33  26  TF-03-08    787.944
2449621.488 309562.523  0.56088 1.24    0.46    0.8 0.79    1   4518708 69  27  26  TF-03-08    787.944
2449621.488 309562.523  0.66256 1.36    0.43    0.72    0.69    1   4772335 73  40  36  TF-03-08    787.944
2449621.488 309562.523  0.76424 1.27    0.66    1   0.87    0.98    2898019 44  17  0   TF-03-08    787.944
2449621.488 309562.523  0.83312 1.3 0.68    1   0.77    0.87    3021243 46  33  0   TF-03-08    787.944
2449621.488 309562.523  0.9348  1.51    0.51    0.77    0.63    1   4102242 62  47  29  TF-03-08    787.944
2449621.488 309562.523  1.03648 1.23    0.71    1   0.71    0.77    2980623 45  45  0   TF-03-08    787.944
2449621.488 309562.523  1.10536 1.17    0.75    1   0.73    0.87    2360646 36  39  0   TF-03-08    787.944
2449621.488 309562.523  1.20704 1.33    0.49    0.82    0.63    1   4267728 65  47  23  TF-03-08    787.944
2449621.488 309562.523  1.30872 1.2 0.63    0.98    0.77    1   3092671 47  29  3   TF-03-08    787.944
2449621.488 309562.523  1.38088 1.21    0.63    0.9 0.77    1   3095282 47  29  13  TF-03-08    787.944
2449621.488 309562.523  1.48256 1.19    0.59    0.96    0.77    1   3427557 52  29  5   TF-03-08    787.944
2449621.488 309562.523  1.55144 1.12    0.65    1   0.75    1   2924248 45  32  0   TF-03-08    787.944
2449621.488 309562.523  1.6564  1.15    0.61    0.94    0.75    1   3260440 50  32  8   TF-03-08    787.944
2449621.488 309562.523  1.75808 1.12    0.61    0.95    0.8 1   3260109 50  26  6   TF-03-08    787.944
2449621.488 309562.523  1.82696 1.09    0.57    0.89    0.75    1   3596305 55  32  14  TF-03-08    787.944
2449621.488 309562.523  1.9352  1.04    0.64    1   0.81    0.98    3068420 47  25  0   TF-03-08    787.944
2449621.488 309562.523  2.03688 1   0.63    1   0.82    0.94    3277480 50  24  0   TF-03-08    787.944
2449621.488 309562.523  2.10904 1.13    0.51    0.85    0.71    1   4099624 62  37  19  TF-03-08    787.944
2449621.488 309562.523  2.214   1.25    0.65    1   0.73    0.9 3217200 49  38  0   TF-03-08    787.944
2449621.488 309562.523  2.31568 1.15    0.6 1   0.72    0.84    3877151 59  41  0   TF-03-08    787.944
2449621.488 309562.523  2.38784 1.26    0.64    0.98    0.77    1   3008785 46  29  3   TF-03-08    787.944
2449621.488 309562.523  2.49608 1.21    0.59    0.85    0.75    1   3431151 52  32  19  TF-03-08    787.944
2449621.488 309562.523  2.56496 1.01    0.61    1   0.78    1   3258478 50  28  0   TF-03-08    787.944
2449621.488 309562.523  2.66336 1.12    0.63    0.95    0.79    1   3093649 47  27  6   TF-03-08    787.944
2449621.488 309562.523  2.67648 1.21    0.64    0.95    0.78    1   3009764 46  28  6   TF-03-08    787.944
2449621.488 309562.523  2.72568 1.44    0.6 1   0.73    0.96    3476065 53  36  0   TF-03-08    787.944
2449621.488 309562.523  2.73224 1.32    0.61    1   0.73    0.89    3616970 55  38  0   TF-03-08    787.944
2449621.488 309562.523  2.73552 1.41    0.67    0.94    0.74    1   2759746 42  33  8   TF-03-08    787.944
2449621.488 309562.523  2.7388  1.35    0.66    1   0.71    0.87    3210650 49  42  0   TF-03-08    787.944
2449621.488 309562.523  2.75848 1.47    0.57    0.88    0.68    1   3596641 55  41  15  TF-03-08    787.944
2449621.488 309562.523  2.8372  1.24    0.45    0.74    0.64    1   4603917 70  46  33  TF-03-08    787.944
2449621.488 309562.523  2.90608 1.12    0.53    0.87    0.69    1   3931201 60  40  17  TF-03-08    787.944
2449621.488 309562.523  3.00776 1.28    0.57    0.9 0.7 1   3595986 55  38  13  TF-03-08    787.944
2449621.488 309562.523  3.116   1.26    0.5 0.82    0.68    1   4183836 64  41  23  TF-03-08    787.944
2449621.488 309562.523  3.18488 1.14    0.49    0.8 0.67    1   4268376 65  42  26  TF-03-08    787.944
2449621.488 309562.523  3.28984 1.07    0.55    0.9 0.72    1   3763100 57  36  13  TF-03-08    787.944
2449621.488 309562.523  3.39808 0.99    0.49    0.82    0.7 1   4267720 65  38  23  TF-03-08    787.944
2449621.488 309562.523  3.47024 1.05    0.43    0.67    0.68    1   4773970 73  41  42  TF-03-08    787.944
2449621.488 309562.523  3.5752  0.95    0.56    0.74    0.75    1   3685088 56  32  33  TF-03-08    787.944
2449621.488 309562.523  3.64408 1.05    0.42    0.67    0.69    1   4857199 74  40  42  TF-03-08    787.944
2449621.488 309562.523  3.67688 1.04    0.42    0.68    0.68    1   4856873 74  41  41  TF-03-08    787.944
2449621.488 309562.523  3.73592 1.05    0.45    0.64    0.68    1   4607176 70  41  46  TF-03-08    787.944
2449621.488 309562.523  3.76216 1.07    0.34    0.63    0.62    1   5526981 84  48  47  TF-03-08    787.944
2449621.488 309562.523  3.7884  1.03    0.37    0.63    0.64    1   5275976 80  46  47  TF-03-08    787.944
2449621.488 309562.523  3.82776 0.98    0.42    0.72    0.67    1   4855568 74  42  36  TF-03-08    787.944
2449621.488 309562.523  3.84416 0.93    0.51    0.75    0.77    1   4102880 62  29  32  TF-03-08    787.944
2449621.488 309562.523  3.85728 1.08    0.42    0.72    0.68    1   4855567 74  41  36  TF-03-08    787.944
2449621.488 309562.523  3.87696 1.03    0.41    0.68    0.66    1   4940761 75  43  41  TF-03-08    787.944
2449621.488 309562.523  3.9032  0.95    0.48    0.76    0.7 1   4352909 66  38  31  TF-03-08    787.944
2449621.488 309562.523  3.92944 0.94    0.5 0.79    0.71    1   4184810 64  37  27  TF-03-08    787.944
2449708.299 309585.394  0   1.22    0.37    0.52    0.51    1   5279581 80  62  61  TF-03-09    787.327
2449708.299 309585.394  0.00984 0.8 0.34    0.65    0.72    1   5526313 84  36  45  TF-03-09    787.327
2449708.299 309585.394  0.07544 0.71    0.4 0.84    0.76    1   5018757 76  31  20  TF-03-09    787.327
2449708.299 309585.394  0.14432 0.95    0.69    1   0.77    0.85    2978645 45  34  0   TF-03-09    787.327
2449708.299 309585.394  0.24272 1.93    0.5 1   0.77    1   4177949 64  29  0   TF-03-09    787.327
```

```
2449708.299 309585.394  0.3116  1.57    0.91    1   0.55    0.66    1008021 15  77  0   TF-03-09    787.327
2449708.299 309585.394  0.41    1.03    0.54    1   0.78    0.72    4919823 75  36  0   TF-03-09    787.327
2449708.299 309585.394  0.5084  1.15    0.38    0.85    0.83    1   5185540 79  22  19  TF-03-09    787.327
2449708.299 309585.394  0.574   1.06    0.43    0.88    0.87    1   4767090 73  17  15  TF-03-09    787.327
2449708.299 309585.394  0.6724  0.9 0.47    1   0.85    0.92    4782838 73  21  0   TF-03-09    787.327
2449708.299 309585.394  0.7708  0.99    0.38    0.81    0.79    1   5186848 79  27  24  TF-03-09    787.327
2449708.299 309585.394  0.83968 0.82    0.58    1   0.94    0.96    3649708 56  8   0   TF-03-09    787.327
2449708.299 309585.394  0.94136 0.82    0.49    0.96    0.87    1   4263128 65  17  5   TF-03-09    787.327
2449708.299 309585.394  1.00696 1   0.34    0.7 0.64    1   5524692 84  46  38  TF-03-09    787.327
2449708.299 309585.394  1.10864 0.92    0.49    0.85    0.8 1   4266729 65  26  19  TF-03-09    787.327
2449708.299 309585.394  1.20376 0.84    0.53    0.92    0.9 1   3929541 60  13  10  TF-03-09    787.327
2449708.299 309585.394  1.26936 0.95    0.38    0.73    0.67    1   5189477 79  42  34  TF-03-09    787.327
2449708.299 309585.394  1.36776 0.7 0.49    1   0.79    0.7 5539793 85  35  0   TF-03-09    787.327
2449708.299 309585.394  1.46944 1.02    0.35    0.68    0.65    1   5442113 83  45  41  TF-03-09    787.327
2449708.299 309585.394  1.53504 1.51    0.54    1   0.67    0.57    5496564 84  60  0   TF-03-09    787.327
2449708.299 309585.394  1.63344 2.21    0.59    1   0.61    0.48    5207566 79  76  0   TF-03-09    787.327
2449708.299 309585.394  1.73184 1.43    0.48    1   0.56    0.57    6213548 95  80  0   TF-03-09    787.327
2449708.299 309585.394  1.79744 1.44    0.56    1   0.52    0.5 5514946 84  92  0   TF-03-09    787.327
2449708.299 309585.394  1.89584 1.16    0.55    1   0.7 0.91    4098663 63  42  0   TF-03-09    787.327
2449708.299 309585.394  1.99752 0.98    0.54    1   0.78    0.77    4727802 72  34  0   TF-03-09    787.327
2449708.299 309585.394  2.06312 0.91    0.55    1   0.79    0.96    3910561 60  28  0   TF-03-09    787.327
2449708.299 309585.394  2.1648  1   0.47    1   0.78    0.93    4738938 72  30  0   TF-03-09    787.327
2449708.299 309585.394  2.2632  0.93    0.51    1   0.7 0.75    5117754 78  48  0   TF-03-09    787.327
2449708.299 309585.394  2.33208 0.89    0.55    1   0.76    0.77    4624913 71  38  0   TF-03-09    787.327
2449708.299 309585.394  2.43048 0.9 0.56    1   0.8 0.82    4338513 66  30  0   TF-03-09    787.327
2449708.299 309585.394  2.53216 0.96    0.57    1   0.83    0.97    3700840 56  22  0   TF-03-09    787.327
2449708.299 309585.394  2.5912  1   0.51    0.98    0.81    1   4095366 62  24  3   TF-03-09    787.327
2449708.299 309585.394  2.59448 1.02    0.55    1   0.8 0.97    3873204 59  26  0   TF-03-09    787.327
2449708.299 309585.394  2.66336 0.93    0.56    1   0.79    0.87    4154357 63  30  0   TF-03-09    787.327
2449708.299 309585.394  2.7552  0.99    0.5 1   0.8 0.95    4387007 67  27  0   TF-03-09    787.327
2449708.299 309585.394  2.81752 0.76    0.44    1   0.89    0.97    4819532 74  14  0   TF-03-09    787.327
2449708.299 309585.394  2.91592 0.81    0.51    1   0.88    0.95    4299178 66  16  0   TF-03-09    787.327
2449708.299 309585.394  2.97824 0.9 0.52    1   0.73    0.92    4331967 66  37  0   TF-03-09    787.327
2449708.299 309585.394  3.07336 0.82    0.61    1   0.82    0.96    3388890 52  24  0   TF-03-09    787.327
2449708.299 309585.394  3.17176 0.82    0.46    0.86    0.83    1   4516745 69  22  18  TF-03-09    787.327
2449708.299 309585.394  3.23736 0.72    0.57    0.96    0.91    1   3594001 55  11  5   TF-03-09    787.327
2449708.299 309585.394  3.33248 0.92    0.53    1   0.77    0.93    4202200 64  31  0   TF-03-09    787.327
2449708.299 309585.394  3.43088 0.92    0.53    1   0.82    0.94    4162871 64  24  0   TF-03-09    787.327
2449708.299 309585.394  3.49648 0.88    0.56    0.99    0.85    1   3676916 56  19  1   TF-03-09    787.327
2449708.299 309585.394  3.5916  0.82    0.53    0.84    0.82    1   3932162 60  23  20  TF-03-09    787.327
2449708.299 309585.394  3.6572  0.87    0.54    0.94    0.82    1   3845668 59  23  8   TF-03-09    787.327
2449708.299 309585.394  3.7556  0.85    0.45    0.83    0.74    1   4600968 70  33  22  TF-03-09    787.327
2449708.299 309585.394  3.854   0.86    0.42    0.88    0.74    1   4850337 74  33  15  TF-03-09    787.327
2449708.299 309585.394  3.9196  0.84    0.44    0.86    0.73    1   4683874 71  34  18  TF-03-09    787.327
2449708.299 309585.394  4.02128 0.86    0.49    0.8 0.73    1   4268369 65  34  26  TF-03-09    787.327
2449708.299 309585.394  4.11968 1.04    0.56    1   0.78    0.9 4044257 62  31  0   TF-03-09    787.327
2449708.299 309585.394  4.18528 0.92    0.59    1   0.77    0.92    3700194 56  32  0   TF-03-09    787.327
2449708.299 309585.394  4.28696 1   0.47    0.88    0.71    1   4432877 68  37  15  TF-03-09    787.327
2449708.299 309585.394  4.38536 0.87    0.52    0.85    0.77    1   4015730 61  29  19  TF-03-09    787.327
2449708.299 309585.394  4.45096 1   0.54    1   0.72    0.86    4381778 67  41  0   TF-03-09    787.327
2449708.299 309585.394  4.55264 1.07    0.62    1   0.78    0.84    3683156 56  33  0   TF-03-09    787.327
2449708.299 309585.394  4.65104 0.83    0.46    0.87    0.81    1   4516422 69  24  17  TF-03-09    787.327
2449708.299 309585.394  4.71664 0.87    0.42    0.82    0.78    1   4852290 74  28  23  TF-03-09    787.327
2449708.299 309585.394  4.81832 0.97    0.51    1   0.74    0.89    4544958 69  37  0   TF-03-09    787.327
2449708.299 309585.394  4.88392 0.96    0.53    0.94    0.78    1   3928904 60  28  8   TF-03-09    787.327
2449708.299 309585.394  4.98232 0.89    0.53    0.9 0.83    1   3930203 60  22  13  TF-03-09    787.327
2449708.299 309585.394  5.08072 1.04    0.53    1   0.73    0.88    4398815 67  39  0   TF-03-09    787.327
2449708.299 309585.394  5.14632 1.32    0.54    1   0.67    0.75    4804497 73  53  0   TF-03-09    787.327
2449708.299 309585.394  5.24472 1.21    0.6 1   0.79    0.9 3676599 56  29  0   TF-03-09    787.327
2449708.299 309585.394  5.31032 1.17    0.59    1   0.71    0.81    4077039 62  44  0   TF-03-09    787.327
2449708.299 309585.394  5.40544 1.38    0.53    1   0.67    0.63    5380563 82  58  0   TF-03-09    787.327
2449708.299 309585.394  5.50056 1.49    0.52    1   0.64    0.61    5575211 85  64  0   TF-03-09    787.327
2449708.299 309585.394  5.56616 1.6 0.57    1   0.6 0.58    5102050 78  72  0   TF-03-09    787.327
2449708.299 309585.394  5.66128 1.47    0.51    1   0.58    0.62    5650588 86  74  0   TF-03-09    787.327
2449708.299 309585.394  5.7564  1.47    0.57    1   0.6 0.66    4814998 73  68  0   TF-03-09    787.327
2449708.299 309585.394  5.81216 1.07    0.59    1   0.81    0.91    3734268 57  26  0   TF-03-09    787.327
2449708.299 309585.394  5.81872 1.08    0.57    1   0.76    0.97    3700849 56  32  0   TF-03-09    787.327
2449708.299 309585.394  5.822   1.16    0.56    1   0.68    0.63    5037153 77  56  0   TF-03-09    787.327
2449708.299 309585.394  5.8712  1.31    0.53    0.97    0.73    1   3927932 60  34  4   TF-03-09    787.327
2449708.299 309585.394  5.90728 1.1 0.56    1   0.73    0.81    4375224 67  41  0   TF-03-09    787.327
2449708.299 309585.394  5.99256 1.28    0.53    0.94    0.8 1   3928901 60  26  8   TF-03-09    787.327
2449708.299 309585.394  6.0844  1.18    0.53    1   0.74    0.83    4594768 70  39  0   TF-03-09    787.327
2449708.299 309585.394  6.15    1.24    0.56    0.96    0.76    1   3677906 56  31  5   TF-03-09    787.327
2449708.299 309585.394  6.24512 0.94    0.55    1   0.73    0.57    5377278 82  49  0   TF-03-09    787.327
2449708.299 309585.394  6.33696 1.2 0.56    1   0.75    0.98    3750002 57  33  0   TF-03-09    787.327
2449708.299 309585.394  6.40256 1.08    0.55    0.89    0.82    1   3763412 57  23  14  TF-03-09    787.327
2449708.299 309585.394  6.49768 1.12    0.43    0.78    0.72    1   4770373 73  36  28  TF-03-09    787.327
2449708.299 309585.394  6.56328 1.01    0.42    0.77    0.66    1   4853936 74  43  29  TF-03-09    787.327
2449708.299 309585.394  6.6584  0.75    0.63    1   0.8 0.66    4142565 63  34  0   TF-03-09    787.327
2449708.299 309585.394  6.75352 0.97    0.47    0.87    0.75    1   4433199 68  32  17  TF-03-09    787.327
2449708.299 309585.394  6.81912 1.04    0.4 0.72    0.67    1   5022685 76  42  36  TF-03-09    787.327
2449708.299 309585.394  6.91424 1.01    0.45    0.79    0.72    1   4602273 70  36  27  TF-03-09    787.327
2449708.299 309585.394  7.01264 0.93    0.52    0.8 0.77    1   4017361 61  29  26  TF-03-09    787.327
2449708.299 309585.394  7.07824 0.94    0.53    0.85    0.76    1   3931845 60  31  19  TF-03-09    787.327
2449708.299 309585.394  7.17336 0.94    0.52    0.82    0.76    1   4016709 61  31  23  TF-03-09    787.327
2449708.299 309585.394  7.23896 1.01    0.56    0.82    0.75    1   3682477 56  32  23  TF-03-09    787.327
2449708.299 309585.394  7.33736 1.06    0.53    0.86    0.73    1   3931521 60  34  18  TF-03-09    787.327
2449708.299 309585.394  7.43904 1.09    0.47    0.77    0.69    1   4436468 68  40  29  TF-03-09    787.327
2449708.299 309585.394  7.50464 1.24    0.4 0.66    0.63    1   5024649 76  47  43  TF-03-09    787.327
2449708.299 309585.394  7.60632 0.94    0.5 0.94    0.74    1   4179912 64  33  8   TF-03-09    787.327
2449708.299 309585.394  7.70472 1.1 0.41    0.72    0.66    1   4939456 75  43  36  TF-03-09    787.327
2449708.299 309585.394  7.77032 1.06    0.41    0.76    0.69    1   4938146 75  40  31  TF-03-09    787.327
2449708.299 309585.394  7.86872 1.06    0.48    0.78    0.73    1   4352252 66  34  28  TF-03-09    787.327
2449708.299 309585.394  7.96712 1.12    0.51    0.85    0.67    1   4099629 62  42  19  TF-03-09    787.327
2449708.299 309585.394  8.03928 1.65    0.55    1   0.58    0.52    5565396 85  79  0   TF-03-09    787.327
2449708.299 309585.394  8.14096 1.91    0.55    1   0.53    0.53    5527394 84  88  0   TF-03-09    787.327
2449708.299 309585.394  8.20656 2.2 0.55    1   0.53    0.46    5790853 88  92  0   TF-03-09    787.327
2449708.299 309585.394  8.30496 1.53    0.56    1   0.68    0.85    4227774 65  47  0   TF-03-09    787.327
2449708.299 309585.394  8.40336 1.25    0.57    1   0.72    0.94    3808335 58  38  0   TF-03-09    787.327
2449708.299 309585.394  8.50176 1.36    0.55    1   0.66    0.9 4136025 63  48  0   TF-03-09    787.327
2449708.299 309585.394  8.57064 1.22    0.53    1   0.71    1   3926954 60  37  0   TF-03-09    787.327
2449708.299 309585.394  8.67232 1.04    0.52    0.95    0.74    1   4012470 61  33  6   TF-03-09    787.327
```

```
2449708.299 309585.394  8.77072 1.07    0.41    0.77    0.68    1   4937820 75  41  29  TF-03-09    787.327
2449708.299 309585.394  8.82976 1.65    0.57    1   0.6 0.6 5030615 77  71  0   TF-03-09    787.327
2449708.299 309585.394  8.83304 1.94    0.56    1   0.5 0.49    5551651 85  96  0   TF-03-09    787.327
2449708.299 309585.394  8.84616 1.36    0.53    1   0.56    0.55    5694504 87  81  0   TF-03-09    787.327
2449708.299 309585.394  8.85272 3.11    0.46    1   0.34    0.22    8031587 123 150 0   TF-03-09    787.327
2449708.299 309585.394  8.86912 2.4 0.44    1   0.35    0.25    8188868 125 145 0   TF-03-09    787.327
2449708.299 309585.394  8.92488 2.49    0.48    1   0.37    0.26    7560373 115 140 0   TF-03-09    787.327
2449708.299 309585.394  9.02328 2.11    0.5 1   0.37    0.3 7102928 108 137 0   TF-03-09    787.327
2449708.299 309585.394  9.09216 1.72    0.52    1   0.45    0.47    6136898 94  107 0   TF-03-09    787.327
2449708.299 309585.394  9.19056 1.47    0.51    1   0.49    0.48    6223397 95  99  0   TF-03-09    787.327
2449708.299 309585.394  9.28896 1.53    0.49    1   0.5 0.45    6605472 101 99  0   TF-03-09    787.327
2449708.299 309585.394  9.35784 1.72    0.49    1   0.45    0.42    6733279 103 111 0   TF-03-09    787.327
2449708.299 309585.394  9.45952 3.17    0.47    1   0.34    0.25    7750435 118 147 0   TF-03-09    787.327
2449708.299 309585.394  9.5612  1.73    0.5 1   0.46    0.47    6392487 98  105 0   TF-03-09    787.327
2449708.299 309585.394  9.63008 1.47    0.51    1   0.53    0.54    5977626 91  87  0   TF-03-09    787.327
2449708.299 309585.394  9.72848 1.19    0.49    1   0.6 0.64    5795418 88  69  0   TF-03-09    787.327
2449708.299 309585.394  9.83344 0.91    0.5 0.95    0.81    1   4179578 64  24  6   TF-03-09    787.327
2449708.299 309585.394  9.90232 0.89    0.41    0.91    0.84    1   4933230 75  20  11  TF-03-09    787.327
2449708.299 309585.394  10.004  0.88    0.44    0.94    0.8 1   4681254 71  26  8   TF-03-09    787.327
2449708.299 309585.394  10.10896    0.83    0.51    0.99    0.78    1   4095045 62  28  1   TF-03-09    787.327
2449708.299 309585.394  10.17784    1.01    0.52    1   0.71    0.76    4973573 76  46  0   TF-03-09    787.327
2449708.299 309585.394  10.27952    1.04    0.48    1   0.65    0.77    5344516 82  55  0   TF-03-09    787.327
2449708.299 309585.394  10.35168    0.98    0.48    1   0.79    0.93    4649152 71  29  0   TF-03-09    787.327
2449708.299 309585.394  10.45336    0.95    0.32    0.62    0.65    1   5694419 87  45  48  TF-03-09    787.327
2449708.299 309585.394  10.55504    0.83    0.45    0.91    0.88    1   4598336 70  15  11  TF-03-09    787.327
2449708.299 309585.394  10.62392    0.86    0.49    0.98    0.75    1   4262491 65  32  3   TF-03-09    787.327
2449708.299 309585.394  10.72888    0.8 0.51    1   0.86    0.97    4217260 64  18  0   TF-03-09    787.327
2449708.299 309585.394  10.83384    0.98    0.5 0.97    0.78    1   4178929 64  28  4   TF-03-09    787.327
2449708.299 309585.394  10.89944    0.79    0.49    0.97    0.8 1   4262812 65  26  4   TF-03-09    787.327
2449708.299 309585.394  11.0044 0.78    0.37    0.84    0.79    1   5269101 80  27  20  TF-03-09    787.327
2449708.299 309585.394  11.07328    0.84    0.48    0.97    0.84    1   4346038 66  20  4   TF-03-09    787.327
2449708.299 309585.394  11.17824    1.44    0.58    1   0.49    0.46    5404854 82  100 0   TF-03-09    787.327
2449708.299 309585.394  11.27992    1.99    0.55    1   0.52    0.53    5527396 84  90  0   TF-03-09    787.327
2449708.299 309585.394  11.3488 3.27    0.5 1   0.34    0.25    7311343 112 147 0   TF-03-09    787.327
2449708.299 309585.394  11.45704    1.15    0.57    1   0.74    0.98    3664807 56  34  0   TF-03-09    787.327
2449708.299 309585.394  11.55872    1.5 0.5 1   0.49    0.52    6183418 94  96  0   TF-03-09    787.327
2449708.299 309585.394  11.6276 1.22    0.51    1   0.6 0.76    5077137 77  63  0   TF-03-09    787.327
2449708.299 309585.394  11.73256    1.07    0.56    1   0.71    0.93    3934166 60  40  0   TF-03-09    787.327
2449708.299 309585.394  11.83424    0.99    0.37    0.73    0.68    1   5272706 80  41  34  TF-03-09    787.327
2449708.299 309585.394  11.9228 0.91    0.49    1   0.77    0.86    4858217 74  33  0   TF-03-09    787.327
2449708.299 309585.394  11.92608    0.98    0.53    0.97    0.71    1   3927935 60  37  4   TF-03-09    787.327
2449708.299 309585.394  11.93592    1.14    0.48    0.85    0.71    1   4349971 66  37  19  TF-03-09    787.327
2449708.299 309585.394  12.0376 0.95    0.43    0.78    0.7 1   4770376 73  38  28  TF-03-09    787.327
2449708.299 309585.394  12.10976    0.81    0.61    0.96    0.89    1   3259770 50  14  5   TF-03-09    787.327
2449708.299 309585.394  12.218  1.05    0.39    0.74    0.69    1   5105261 78  40  33  TF-03-09    787.327
2449708.299 309585.394  12.31968    1.04    0.42    0.74    0.71    1   4854911 74  37  33  TF-03-09    787.327
2449708.299 309585.394  12.39184    1.16    0.34    0.67    0.61    1   5525677 84  50  42  TF-03-09    787.327
2449708.299 309585.394  12.50008    0.96    0.54    0.87    0.81    1   3847955 59  24  17  TF-03-09    787.327
2449708.299 309585.394  12.60832    0.98    0.55    0.99    0.85    1   3760147 57  19  1   TF-03-09    787.327
2449708.299 309585.394  12.63784    1.06    0.45    0.83    0.74    1   4600968 70  33  22  TF-03-09    787.327
2449708.299 309585.394  12.65424    1.03    0.52    0.92    0.84    1   4013435 61  20  10  TF-03-09    787.327
2449708.299 309585.394  12.71984    1   0.48    0.78    0.7 1   4352256 66  38  28  TF-03-09    787.327
2449708.299 309585.394  12.82152    1.17    0.42    0.73    0.66    1   4855245 74  43  34  TF-03-09    787.327
2449708.299 309585.394  12.92648    0.99    0.49    0.76    0.79    1   4269666 65  27  31  TF-03-09    787.327
2449708.299 309585.394  12.99536    1.15    0.4 0.64    0.61    1   5025304 76  50  46  TF-03-09    787.327
2449708.299 309585.394  13.1036 1.07    0.4 0.71    0.65    1   5023016 76  45  37  TF-03-09    787.327
2449708.299 309585.394  13.20856    1.08    0.46    0.78    0.73    1   4519369 69  34  28  TF-03-09    787.327
2449708.299 309585.394  13.28072    1.2 0.41    0.69    0.65    1   4940438 75  45  40  TF-03-09    787.327
2449708.299 309585.394  13.38896    1.17    0.38    0.68    0.66    1   5191109 79  43  41  TF-03-09    787.327
2449708.299 309585.394  13.49392    1.06    0.47    0.84    0.75    1   4434177 68  32  20  TF-03-09    787.327
2449708.299 309585.394  13.56608    1.14    0.43    0.77    0.66    1   4770706 73  43  29  TF-03-09    787.327
2449708.299 309585.394  13.67432    1.11    0.44    0.71    0.68    1   4688778 71  41  37  TF-03-09    787.327
2449708.299 309585.394  13.7432 1.05    0.49    0.75    0.68    1   4270008 65  41  32  TF-03-09    787.327
2449708.299 309585.394  13.85144    1.09    0.44    0.83    0.75    1   4684852 71  32  22  TF-03-09    787.327
2449708.299 309585.394  13.9564 1.04    0.46    0.75    0.71    1   4520352 69  37  32  TF-03-09    787.327
2449708.299 309585.394  14.01544    1.11    0.45    0.81    0.71    1   4601622 70  37  24  TF-03-09    787.327
2449708.299 309585.394  14.10072    1.09    0.52    0.8 0.74    1   4017364 61  33  26  TF-03-09    787.327
2449708.299 309585.394  14.18928    1.23    0.45    0.77    0.72    1   4602926 70  36  29  TF-03-09    787.327
2449708.299 309585.394  14.2516 1.3 0.44    0.69    0.69    1   4689430 71  40  40  TF-03-09    787.327
2449708.299 309585.394  14.35   1.4 0.49    0.7 0.64    1   4271644 65  46  38  TF-03-09    787.327
2449708.299 309585.394  14.40576    1.31    0.42    0.65    0.62    1   4857858 74  48  45  TF-03-09    787.327
2449761.494 309614.794  0   0.67    0.42    1   0.8 0.51    7221450 110 38  0   TF-03-10    787.14
2449761.494 309614.794  0.0492  1.52    0.67    1   0.62    0.68    3639933 56  64  0   TF-03-10    787.14
2449761.494 309614.794  0.07872 0.87    0.47    1   0.69    0.78    5402836 82  48  0   TF-03-10    787.14
2449761.494 309614.794  0.12464 1.44    0.54    1   0.57    0.64    5227226 80  75  0   TF-03-10    787.14
2449761.494 309614.794  0.20664 2.24    0.71    1   0.58    0.56    3489214 53  77  0   TF-03-10    787.14
2449761.494 309614.794  0.2624  1.97    0.62    1   0.85    0.82    3746716 57  23  0   TF-03-10    787.14
2449761.494 309614.794  0.35096 1.48    0.48    0.95    0.86    1   4346688 66  18  6   TF-03-10    787.14
2449761.494 309614.794  0.43952 1.2 0.56    1   0.88    0.84    4265101 65  18  0   TF-03-10    787.14
2449761.494 309614.794  0.50184 1.22    0.55    1   0.78    0.8 4512187 69  34  0   TF-03-10    787.14
2449761.494 309614.794  0.5904  1.15    0.48    1   0.84    0.88    4866726 74  23  0   TF-03-10    787.14
2449761.494 309614.794  0.68224 1.19    0.56    1   0.86    0.97    3786688 58  18  0   TF-03-10    787.14
2449761.494 309614.794  0.74456 1.18    0.58    1   0.86    0.94    3719842 57  19  0   TF-03-10    787.14
2449761.494 309614.794  0.8364  1.15    0.57    1   0.82    0.96    3736887 57  24  0   TF-03-10    787.14
2449761.494 309614.794  0.89872 1.18    0.48    0.97    0.78    1   4346045 66  28  4   TF-03-10    787.14
2449761.494 309614.794  0.99384 1.06    0.53    0.94    0.75    1   3928907 60  32  8   TF-03-10    787.14
2449761.494 309614.794  1.08568 0.92    0.55    1   0.81    0.82    4436816 68  29  0   TF-03-10    787.14
2449761.494 309614.794  1.14472 1.03    0.51    0.88    0.7 1   4098644 62  38  15  TF-03-10    787.14
2449761.494 309614.794  1.23984 0.99    0.53    0.99    0.75    1   3927277 60  32  1   TF-03-10    787.14
2449761.494 309614.794  1.30544 1   0.47    0.91    0.76    1   4431890 68  31  11  TF-03-10    787.14
2449761.494 309614.794  1.40712 0.97    0.5 0.89    0.75    1   4181541 64  32  14  TF-03-10    787.14
2449761.494 309614.794  1.50552 1.08    0.4 0.79    0.63    1   5020404 76  47  27  TF-03-10    787.14
2449761.494 309614.794  1.5744  0.85    0.54    1   0.72    0.9 4228422 65  39  0   TF-03-10    787.14
2449761.494 309614.794  1.67608 0.98    0.46    0.91    0.75    1   4515122 69  32  11  TF-03-10    787.14
2449761.494 309614.794  1.78104 0.85    0.64    1   0.79    0.69    3940715 60  35  0   TF-03-10    787.14
2449761.494 309614.794  1.84664 1.21    0.61    1   0.7 0.74    4105879 63  48  0   TF-03-10    787.14
2449761.494 309614.794  1.94832 1.16    0.48    1   0.77    0.91    4736319 72  32  0   TF-03-10    787.14
2449761.494 309614.794  2.05    1.13    0.51    1   0.81    0.71    5281577 81  31  0   TF-03-10    787.14
2449761.494 309614.794  2.11888 1.01    0.5 1   0.76    0.78    5096772 78  37  0   TF-03-10    787.14
2449761.494 309614.794  2.22056 1.07    0.52    1   0.73    0.94    4251357 65  36  0   TF-03-10    787.14
2449761.494 309614.794  2.28944 0.88    0.6 1   0.77    0.82    3943991 60  35  0   TF-03-10    787.14
2449761.494 309614.794  2.3944  0.91    0.54    1   0.77    0.91    4189748 64  32  0   TF-03-10    787.14
```

```
2449761.494 309614.794  2.49608 0.91    0.51    1   0.73    0.83    4790722 73  40  0   TF-03-10    787.14
2449761.494 309614.794  2.56496 0.88    0.56    1   0.72    0.86    4191068 64  41  0   TF-03-10    787.14
2449761.494 309614.794  2.57152 0.88    0.61    1   0.78    0.86    3715268 57  32  0   TF-03-10    787.14
2449761.494 309614.794  2.58136 0.95    0.54    1   0.75    0.87    4343107 66  36  0   TF-03-10    787.14
2449761.494 309614.794  2.64696 1.05    0.48    0.86    0.7 1   4349645 66  38  18  TF-03-10    787.14
2449761.494 309614.794  2.74864 0.97    0.56    1   0.74    0.85    4227765 65  38  0   TF-03-10    787.14
2449761.494 309614.794  2.81752 1.07    0.55    0.97    0.72    1   3760816 57  36  4   TF-03-10    787.14
2449761.494 309614.794  2.92248 1.14    0.53    1   0.7 0.76    4870028 74  47  0   TF-03-10    787.14
2449761.494 309614.794  3.02744 1.25    0.6 1   0.8 0.89    3710021 57  28  0   TF-03-10    787.14
2449761.494 309614.794  3.09632 1.16    0.58    1   0.74    0.85    4035745 62  38  0   TF-03-10    787.14
2449761.494 309614.794  3.20128 0.89    0.56    1   0.67    0.69    4816296 73  55  0   TF-03-10    787.14
2449761.494 309614.794  3.29968 1.06    0.55    0.95    0.72    1   3761469 57  36  6   TF-03-10    787.14
2449761.494 309614.794  3.37184 1.02    0.6 1   0.76    0.91    3643180 56  33  0   TF-03-10    787.14
2449761.494 309614.794  3.4768  1.05    0.54    1   0.75    0.93    4113073 63  34  0   TF-03-10    787.14
2449761.494 309614.794  3.54896 0.86    0.52    1   0.7 0.73    5093506 78  49  0   TF-03-10    787.14
2449761.494 309614.794  3.65392 0.94    0.6 1   0.75    0.91    3643181 56  35  0   TF-03-10    787.14
2449761.494 309614.794  3.76216 1.41    0.57    1   0.66    0.69    4706852 72  57  0   TF-03-10    787.14
2449761.494 309614.794  3.83104 1.68    0.59    1   0.6 0.51    5104675 78  76  0   TF-03-10    787.14
2449761.494 309614.794  3.93928 3.62    0.75    1   0.74    0.48    3175270 48  50  0   TF-03-10    787.14
2449761.494 309614.794  4.04424 9.03    0.44    1   0.31    0.12    8797063 134 165 0   TF-03-10    787.14
2449761.494 309614.794  4.1164  16.3    0.57    1   0.37    0.12    6754947 103 151 0   TF-03-10    787.14
2449761.494 309614.794  4.22136 16.39   0.54    1   0.34    0.12    7226158 110 158 0   TF-03-10    787.14
2449761.494 309614.794  4.3296  11.13   0.45    1   0.29    0.12    8639781 132 170 0   TF-03-10    787.14
2449761.494 309614.794  4.43784 11.86   0.47    1   0.28    0.1 8414341 128 174 0   TF-03-10    787.14
2449761.494 309614.794  4.51    16.62   0.46    1   0.27    0.1 8573596 131 177 0   TF-03-10    787.14
2449761.494 309614.794  4.61496 21.36   0.47    1   0.27    0.09    8458909 129 178 0   TF-03-10    787.14
2449761.494 309614.794  4.6904  24.13   0.45    1   0.27    0.09    8778070 134 178 0   TF-03-10    787.14
2449761.494 309614.794  4.80192 19.55   0.46    1   0.28    0.11    8528373 130 174 0   TF-03-10    787.14
2449761.494 309614.794  4.89048 23.68   0.45    1   0.27    0.09    8778070 134 178 0   TF-03-10    787.14
2449761.494 309614.794  4.89376 20.87   0.44    1   0.29    0.12    8797067 134 170 0   TF-03-10    787.14
2449761.494 309614.794  4.91672 21.2    0.45    1   0.29    0.11    8686313 133 171 0   TF-03-10    787.14
2449761.494 309614.794  5.01512 23.88   0.46    1   0.29    0.1 8573592 131 172 0   TF-03-10    787.14
2449761.494 309614.794  5.05448 18.1    0.45    1   0.3 0.12    8639779 132 168 0   TF-03-10    787.14
2449761.494 309614.794  5.07088 18.02   0.45    1   0.3 0.12    8639779 132 168 0   TF-03-10    787.14
2449761.494 309614.794  5.08072 17.41   0.46    1   0.31    0.13    8437925 129 165 0   TF-03-10    787.14
2449761.494 309614.794  5.09384 17.98   0.46    1   0.3 0.13    8437927 129 167 0   TF-03-10    787.14
2449761.494 309614.794  5.10696 15.8    0.47    1   0.3 0.13    8281951 126 167 0   TF-03-10    787.14
2449761.494 309614.794  5.11352 16.56   0.44    1   0.3 0.13    8750534 134 167 0   TF-03-10    787.14
2449761.494 309614.794  5.12664 15.58   0.46    1   0.31    0.13    8437925 129 165 0   TF-03-10    787.14
2449761.494 309614.794  5.13976 21.25   0.45    1   0.29    0.11    8686313 133 171 0   TF-03-10    787.14
2449761.494 309614.794  5.14632 20.55   0.45    1   0.28    0.1 8732191 133 174 0   TF-03-10    787.14
2449761.494 309614.794  5.20536 19.89   0.45    1   0.29    0.11    8686313 133 171 0   TF-03-10    787.14
2449761.494 309614.794  5.27752 20.3    0.45    1   0.28    0.11    8686315 133 174 0   TF-03-10    787.14
2449761.494 309614.794  5.32672 24.46   0.45    1   0.28    0.1 8732191 133 174 0   TF-03-10    787.14
2449761.494 309614.794  5.412   27.7    0.46    1   0.27    0.09    8618162 132 178 0   TF-03-10    787.14
2449761.494 309614.794  5.4776  23.37   0.45    1   0.28    0.1 8732191 133 174 0   TF-03-10    787.14
2449761.494 309614.794  5.576   20.51   0.45    1   0.28    0.1 8732191 133 174 0   TF-03-10    787.14
2449761.494 309614.794  5.67112 22.96   0.45    1   0.27    0.1 8732193 133 177 0   TF-03-10    787.14
2449761.494 309614.794  5.73672 25.31   0.46    1   0.26    0.09    8618164 132 180 0   TF-03-10    787.14
2449761.494 309614.794  5.8384  26.39   0.47    1   0.27    0.09    8458909 129 178 0   TF-03-10    787.14
2449761.494 309614.794  5.86136 29.95   0.46    1   0.26    0.08    8663385 132 181 0   TF-03-10    787.14
2449761.494 309614.794  5.88432 28.68   0.46    1   0.26    0.09    8618164 132 180 0   TF-03-10    787.14
2449761.494 309614.794  5.91056 25.42   0.45    1   0.27    0.09    8778070 134 178 0   TF-03-10    787.14
2449761.494 309614.794  5.94008 23.71   0.46    1   0.26    0.1 8573599 131 179 0   TF-03-10    787.14
2449761.494 309614.794  5.94992 18.63   0.46    1   0.27    0.11    8528376 130 176 0   TF-03-10    787.14
2449761.494 309614.794  5.96632 19.09   0.47    1   0.27    0.09    8458909 129 178 0   TF-03-10    787.14
2449761.494 309614.794  5.99584 23.54   0.47    1   0.27    0.1 8414344 128 177 0   TF-03-10    787.14
2449761.494 309614.794  6.02864 23.69   0.46    1   0.26    0.1 8573599 131 179 0   TF-03-10    787.14
2449761.494 309614.794  6.0844  26.94   0.45    1   0.26    0.08    8823948 135 181 0   TF-03-10    787.14
2449761.494 309614.794  6.12048 27.44   0.46    1   0.27    0.09    8618162 132 178 0   TF-03-10    787.14
2449761.494 309614.794  6.19264 25.13   0.46    1   0.27    0.1 8573596 131 177 0   TF-03-10    787.14
2449761.494 309614.794  6.26152 18.98   0.45    1   0.26    0.09    8778072 134 180 0   TF-03-10    787.14
2449761.494 309614.794  6.36648 30.56   0.47    1   0.27    0.09    8458909 129 178 0   TF-03-10    787.14
2449761.494 309614.794  6.4288  28.47   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  6.53048 24.63   0.46    1   0.26    0.08    8663385 132 181 0   TF-03-10    787.14
2449761.494 309614.794  6.62888 19.81   0.47    1   0.26    0.08    8502822 130 181 0   TF-03-10    787.14
2449761.494 309614.794  6.6912  21.26   0.45    1   0.26    0.1 8732196 133 179 0   TF-03-10    787.14
2449761.494 309614.794  6.79288 16.62   0.48    1   0.26    0.1 8255749 126 179 0   TF-03-10    787.14
2449761.494 309614.794  6.89128 9.73    0.46    1   0.27    0.13    8437934 129 174 0   TF-03-10    787.14
2449761.494 309614.794  6.96016 10.25   0.48    1   0.27    0.12    8168582 125 175 0   TF-03-10    787.14
2449761.494 309614.794  7.06184 10.05   0.45    1   0.27    0.12    8639786 132 175 0   TF-03-10    787.14
2449761.494 309614.794  7.10776 13.77   0.48    1   0.25    0.1 8255752 126 182 0   TF-03-10    787.14
2449761.494 309614.794  7.20616 13.64   0.46    1   0.26    0.12    8483157 129 177 0   TF-03-10    787.14
2449761.494 309614.794  7.30784 11.6    0.46    1   0.27    0.13    8437934 129 174 0   TF-03-10    787.14
2449761.494 309614.794  7.37672 10.01   0.48    1   0.29    0.13    8125323 124 169 0   TF-03-10    787.14
2449761.494 309614.794  7.47512 10.92   0.47    1   0.27    0.12    8325868 127 175 0   TF-03-10    787.14
2449761.494 309614.794  7.49152 10.1    0.47    1   0.27    0.1 8414344 128 177 0   TF-03-10    787.14
2449761.494 309614.794  7.57352 16.8    0.47    1   0.28    0.13    8281956 126 172 0   TF-03-10    787.14
2449761.494 309614.794  7.6752  20.41   0.48    1   0.25    0.09    8299006 127 183 0   TF-03-10    787.14
2449761.494 309614.794  7.7408  16.81   0.47    1   0.26    0.1 8414346 128 179 0   TF-03-10    787.14
2449761.494 309614.794  7.84576 8.09    0.47    1   0.29    0.15    8192823 125 167 0   TF-03-10    787.14
2449761.494 309614.794  7.94416 8.92    0.47    1   0.27    0.1 8414344 128 177 0   TF-03-10    787.14
2449761.494 309614.794  8.00648 9.71    0.47    1   0.28    0.12    8325866 127 173 0   TF-03-10    787.14
2449761.494 309614.794  8.10488 10.66   0.47    1   0.27    0.1 8414344 128 177 0   TF-03-10    787.14
2449761.494 309614.794  8.17704 15.24   0.53    1   0.3 0.1 7462099 114 170 0   TF-03-10    787.14
2449761.494 309614.794  8.282   13.98   0.48    1   0.28    0.08    8342909 127 176 0   TF-03-10    787.14
2449761.494 309614.794  8.3804  19.16   0.46    1   0.26    0.09    8618164 132 180 0   TF-03-10    787.14
2449761.494 309614.794  8.48536 32.38   0.47    1   0.25    0.08    8502824 130 184 0   TF-03-10    787.14
2449761.494 309614.794  8.55424 34.73   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  8.6592  27.24   0.49    1   0.26    0.09    8139751 124 180 0   TF-03-10    787.14
2449761.494 309614.794  8.76416 16.23   0.46    1   0.26    0.11    8528378 130 178 0   TF-03-10    787.14
2449761.494 309614.794  8.83304 14.23   0.47    1   0.27    0.13    8281958 126 174 0   TF-03-10    787.14
2449761.494 309614.794  8.938   7.63    0.48    1   0.28    0.12    8168580 125 173 0   TF-03-10    787.14
2449761.494 309614.794  8.96424 8.51    0.47    1   0.27    0.13    8281958 126 174 0   TF-03-10    787.14
2449761.494 309614.794  9.05608 6.94    0.47    1   0.27    0.13    8281958 126 174 0   TF-03-10    787.14
2449761.494 309614.794  9.1676  8.37    0.47    1   0.26    0.14    8237395 126 175 0   TF-03-10    787.14
2449761.494 309614.794  9.24304 8.19    0.45    1   0.26    0.14    8548036 130 175 0   TF-03-10    787.14
2449761.494 309614.794  9.35128 13.49   0.48    1   0.28    0.11    8212490 125 174 0   TF-03-10    787.14
2449761.494 309614.794  9.45624 12.9    0.47    1   0.26    0.1 8414346 128 179 0   TF-03-10    787.14
2449761.494 309614.794  9.57104 20.5    0.46    1   0.26    0.1 8573599 131 179 0   TF-03-10    787.14
2449761.494 309614.794  9.6432  29.23   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  9.75144 35.68   0.46    1   0.25    0.08    8663387 132 184 0   TF-03-10    787.14
```

```
2449761.494 309614.794  9.83016 24.39   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  9.9384  17.6    0.46    1   0.26    0.09    8618164 132 180 0   TF-03-10    787.14
2449761.494 309614.794  10.0532 15.58   0.46    1   0.26    0.11    8528378 130 178 0   TF-03-10    787.14
2449761.494 309614.794  10.12536    12.46   0.47    1   0.26    0.12    8325871 127 177 0   TF-03-10    787.14
2449761.494 309614.794  10.23688    7.58    0.49    1   0.28    0.15    7884151 120 170 0   TF-03-10    787.14
2449761.494 309614.794  10.3484 5.8 0.46    1   0.28    0.16    8302269 127 169 0   TF-03-10    787.14
2449761.494 309614.794  10.42056    11.12   0.47    1   0.26    0.1 8414346 128 179 0   TF-03-10    787.14
2449761.494 309614.794  10.53208    8.3 0.46    1   0.27    0.15    8347493 127 172 0   TF-03-10    787.14
2449761.494 309614.794  10.60752    14.34   0.54    1   0.31    0.11    7264832 111 166 0   TF-03-10    787.14
2449761.494 309614.794  10.71904    22.52   0.67    1   0.38    0.12    5184046 79  149 0   TF-03-10    787.14
2449761.494 309614.794  10.83056    18.72   0.47    1   0.27    0.11    8370434 128 176 0   TF-03-10    787.14
2449761.494 309614.794  10.94208    15.23   0.46    1   0.26    0.11    8528378 130 178 0   TF-03-10    787.14
2449761.494 309614.794  11.01424    31.32   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  11.12576    22.73   0.48    1   0.26    0.09    8299004 127 180 0   TF-03-10    787.14
2449761.494 309614.794  11.23728    33.56   0.46    1   0.25    0.08    8663387 132 184 0   TF-03-10    787.14
2449761.494 309614.794  11.30944    12.8    0.46    1   0.27    0.11    8528376 130 176 0   TF-03-10    787.14
2449761.494 309614.794  11.42096    9.56    0.47    1   0.28    0.14    8237391 126 171 0   TF-03-10    787.14
2449761.494 309614.794  11.48656    4.72    0.46    1   0.3 0.15    8347485 127 165 0   TF-03-10    787.14
2449761.494 309614.794  11.58168    15.45   0.57    1   0.31    0.11    6791007 104 166 0   TF-03-10    787.14
2449761.494 309614.794  11.68336    18.79   0.59    1   0.32    0.12    6441041 98  163 0   TF-03-10    787.14
2449761.494 309614.794  11.77848    17.14   0.47    1   0.26    0.08    8502822 130 181 0   TF-03-10    787.14
2449761.494 309614.794  11.87688    28.86   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  11.94248    34.72   0.46    1   0.26    0.09    8618164 132 180 0   TF-03-10    787.14
2449761.494 309614.794  12.04416    25.32   0.47    1   0.24    0.09    8458917 129 185 0   TF-03-10    787.14
2449761.494 309614.794  12.14256    15.07   0.46    1   0.26    0.1 8573599 131 179 0   TF-03-10    787.14
2449761.494 309614.794  12.20488    26.11   0.46    1   0.25    0.08    8663387 132 184 0   TF-03-10    787.14
2449761.494 309614.794  12.2508 25.01   0.47    1   0.25    0.09    8458914 129 183 0   TF-03-10    787.14
2449761.494 309614.794  12.25736    26.71   0.48    1   0.25    0.1 8255752 126 182 0   TF-03-10    787.14
2449761.494 309614.794  12.3492 30.52   0.47    1   0.26    0.09    8458912 129 180 0   TF-03-10    787.14
2449761.494 309614.794  12.44432    8.75    0.48    1   0.27    0.11    8212492 125 176 0   TF-03-10    787.14
2449761.494 309614.794  12.54272    21.89   0.67    1   0.36    0.12    5184051 79  153 0   TF-03-10    787.14
2449761.494 309614.794  12.60832    29.2    0.48    1   0.25    0.08    8342916 127 184 0   TF-03-10    787.14
2449761.494 309614.794  12.70672    29.41   0.48    1   0.25    0.09    8299006 127 183 0   TF-03-10    787.14
2449761.494 309614.794  12.80512    31.77   0.49    1   0.24    0.09    8139756 124 185 0   TF-03-10    787.14
2449761.494 309614.794  12.87072    39.24   0.47    1   0.25    0.08    8502824 130 184 0   TF-03-10    787.14
2449761.494 309614.794  12.96912    21.72   0.47    1   0.25    0.08    8502824 130 184 0   TF-03-10    787.14
2449761.494 309614.794  13.03472    21.01   0.48    1   0.26    0.09    8299004 127 180 0   TF-03-10    787.14
2449761.494 309614.794  13.13312    23.24   0.49    1   0.25    0.08    8182353 125 184 0   TF-03-10    787.14
2449761.494 309614.794  13.23152    20.53   0.47    1   0.24    0.07    8547392 130 187 0   TF-03-10    787.14
2449761.494 309614.794  13.29712    21.27   0.49    1   0.24    0.08    8182356 125 186 0   TF-03-10    787.14
2449761.494 309614.794  13.39552    12.36   0.49    1   0.24    0.09    8139756 124 185 0   TF-03-10    787.14
2449761.494 309614.794  13.49392    4.43    0.5 1   0.3 0.25    7311352 112 156 0   TF-03-10    787.14
2449761.494 309614.794  13.5956 6.46    0.49    1   0.28    0.16    7841551 120 169 0   TF-03-10    787.14
2449761.494 309614.794  13.6612 8.32    0.5 1   0.27    0.13    7812721 119 174 0   TF-03-10    787.14
2449761.494 309614.794  13.7596 5.54    0.52    1   0.28    0.17    7340200 112 168 0   TF-03-10    787.14
2449761.494 309614.794  13.82848    2.83    0.5 1   0.32    0.21    7478468 114 155 0   TF-03-10    787.14
2449761.494 309614.794  13.92688    1.44    0.54    1   0.36    0.35    6342053 97  135 0   TF-03-10    787.14
2449761.494 309614.794  14.02528    1.5 0.52    1   0.48    0.59    5655195 86  93  0   TF-03-10    787.14
2449761.494 309614.794  14.09416    1.05    0.53    1   0.61    0.78    4791398 73  61  0   TF-03-10    787.14
2449761.494 309614.794  14.19256    0.86    0.57    1   0.73    0.82    4239564 65  41  0   TF-03-10    787.14
2449761.494 309614.794  14.29424    0.9 0.57    0.96    0.68    1   3594030 55  41  5   TF-03-10    787.14
2449761.494 309614.794  14.35984    0.91    0.49    0.86    0.69    1   4266415 65  40  18  TF-03-10    787.14
2449761.494 309614.794  14.46152    0.78    0.5 0.95    0.72    1   4179589 64  36  6   TF-03-10    787.14
2449761.494 309614.794  14.55992    0.77    0.54    1   0.71    0.77    4727813 72  45  0   TF-03-10    787.14
2449761.494 309614.794  14.6288 0.88    0.45    0.83    0.72    1   4600970 70  36  22  TF-03-10    787.14
2449761.494 309614.794  14.73048    0.85    0.43    0.82    0.71    1   4769069 73  37  23  TF-03-10    787.14
2449761.494 309614.794  14.82888    0.66    0.51    1   0.88    0.83    4790700 73  18  0   TF-03-10    787.14
2449761.494 309614.794  14.89448    0.81    0.43    0.74    0.65    1   4771688 73  45  33  TF-03-10    787.14
2449761.494 309614.794  14.99616    0.77    0.54    1   0.74    0.96    3997730 61  34  0   TF-03-10    787.14
2449761.494 309614.794  15.06176    0.71    0.52    1   0.81    0.9 4411910 67  27  0   TF-03-10    787.14
2449761.494 309614.794  15.16344    0.8 0.51    0.97    0.8 1   4095695 62  26  4   TF-03-10    787.14
2449761.494 309614.794  15.26184    0.86    0.49    0.86    0.74    1   4266409 65  33  18  TF-03-10    787.14
2449761.494 309614.794  15.33072    0.73    0.53    1   0.73    0.88    4398815 67  39  0   TF-03-10    787.14
2449761.494 309614.794  15.4324 0.72    0.56    1   0.7 0.86    4191071 64  44  0   TF-03-10    787.14
2449761.494 309614.794  15.5308 0.82    0.55    0.98    0.72    1   3760489 57  36  3   TF-03-10    787.14
2449761.494 309614.794  15.53736    0.8 0.55    0.99    0.8 1   3760154 57  26  1   TF-03-10    787.14
2449761.494 309614.794  15.57344    0.69    0.56    1   0.73    0.67    4889687 75  46  0   TF-03-10    787.14
2449761.494 309614.794  15.63904    0.95    0.4 0.82    0.64    1   5019425 76  46  23  TF-03-10    787.14
2449761.494 309614.794  15.73416    0.64    0.57    1   0.74    0.71    4634749 71  43  0   TF-03-10    787.14
2449761.494 309614.794  15.83256    0.73    0.52    1   0.79    0.93    4291326 65  29  0   TF-03-10    787.14
2449761.494 309614.794  15.89816    0.8 0.54    0.94    0.74    1   3845678 59  33  8   TF-03-10    787.14
2449761.494 309614.794  15.99984    0.8 0.48    0.79    0.73    1   4351924 66  34  27  TF-03-10    787.14
2449761.494 309614.794  16.10152    0.71    0.52    1   0.77    0.85    4612457 70  34  0   TF-03-10    787.14
2449761.494 309614.794  16.1704 0.67    0.58    1   0.78    0.76    4351625 66  35  0   TF-03-10    787.14
2449761.494 309614.794  16.2688 0.77    0.54    1   0.8 0.92    4151078 63  28  0   TF-03-10    787.14
2449761.494 309614.794  16.3672 0.84    0.52    0.97    0.78    1   4011812 61  28  4   TF-03-10    787.14
2449761.494 309614.794  16.4328 0.78    0.57    0.86    0.71    1   3597290 55  37  18  TF-03-10    787.14
2449761.494 309614.794  16.53448    0.83    0.49    0.9 0.76    1   4265101 65  31  13  TF-03-10    787.14
2449761.494 309614.794  16.60336    0.84    0.47    1   0.74    0.99    4472865 68  33  0   TF-03-10    787.14
2449761.494 309614.794  16.70176    0.77    0.63    1   0.76    0.97    3184426 49  32  0   TF-03-10    787.14
2449761.494 309614.794  16.80344    0.71    0.56    1   0.79    0.89    4080956 62  30  0   TF-03-10    787.14
2449761.494 309614.794  16.87232    0.83    0.5 0.92    0.74    1   4180564 64  33  10  TF-03-10    787.14
2449761.494 309614.794  16.974  0.72    0.61    1   0.71    0.9 3584860 55  41  0   TF-03-10    787.14
2449761.494 309614.794  17.07568    0.78    0.53    0.97    0.68    1   3927938 60  41  4   TF-03-10    787.14
2449761.494 309614.794  17.14128    0.88    0.46    0.78    0.73    1   4519369 69  34  28  TF-03-10    787.14
2449761.494 309614.794  17.24296    0.7 0.54    1   0.78    0.8 4612457 70  34  0   TF-03-10    787.14
2449761.494 309614.794  17.31184    0.86    0.51    1   0.78    0.98    4175983 64  29  0   TF-03-10    787.14
2449761.494 309614.794  17.41024    0.89    0.65    1   0.81    1   2924241 45  24  0   TF-03-10    787.14
2449761.494 309614.794  17.51192    0.94    0.49    0.91    0.72    1   4264778 65  36  11  TF-03-10    787.14
2449761.494 309614.794  17.5808 1.05    0.4 0.79    0.7 1   5020395 76  38  27  TF-03-10    787.14
2449761.494 309614.794  17.68248    0.81    0.55    1   0.81    0.95    3947914 60  25  0   TF-03-10    787.14
2449761.494 309614.794  17.78744    0.87    0.53    1   0.74    0.99    3966272 61  33  0   TF-03-10    787.14
2449761.494 309614.794  17.85304    0.94    0.47    0.87    0.72    1   4433203 68  36  17  TF-03-10    787.14
2449761.494 309614.794  17.95472    1   0.46    0.76    0.7 1   4520025 69  38  31  TF-03-10    787.14
2449761.494 309614.794  18.0236 0.97    0.56    1   0.75    0.92    3970861 61  34  0   TF-03-10    787.14
2449761.494 309614.794  18.12528    0.86    0.43    0.85    0.68    1   4768095 73  41  19  TF-03-10    787.14
2449761.494 309614.794  18.22368    1.01    0.38    0.81    0.64    1   5186867 79  46  24  TF-03-10    787.14
2449761.494 309614.794  18.29256    0.83    0.45    0.85    0.73    1   4600316 70  34  19  TF-03-10    787.14
2449761.494 309614.794  18.39424    1.03    0.43    0.78    0.69    1   4770377 73  40  28  TF-03-10    787.14
2449761.494 309614.794  18.49592    0.95    0.5 0.86    0.7 1   4182528 64  38  18  TF-03-10    787.14
2449761.494 309614.794  18.5648 0.94    0.51    0.86    0.76    1   4099289 62  31  18  TF-03-10    787.14
2449761.494 309614.794  18.64024    0.95    0.5 0.88    0.71    1   4181874 64  37  15  TF-03-10    787.14
```

```
2449761.494 309614.794  18.69928    0.94    0.52    0.9 0.73    1   4014102 61  34  13  TF-03-10    787.14
2449761.494 309614.794  18.79768    0.73    0.6 1   0.73    0.77    4111116 63  42  0   TF-03-10    787.14
2449761.494 309614.794  18.89608    1   0.45    0.8 0.64    1   4601958 70  46  26  TF-03-10    787.14
2449761.494 309614.794  18.96168    0.84    0.58    0.95    0.81    1   3511110 54  24  6   TF-03-10    787.14
2449761.494 309614.794  19.06336    1.02    0.39    0.72    0.64    1   5105920 78  46  36  TF-03-10    787.14
2449761.494 309614.794  19.12896    0.94    0.46    0.8 0.66    1   4518725 69  43  26  TF-03-10    787.14
2449761.494 309614.794  19.23392    0.8 0.55    1   0.7 0.8 4512200 69  46  0   TF-03-10    787.14
2449761.494 309614.794  19.33232    1.07    0.38    0.61    0.57    1   5193404 79  55  50  TF-03-10    787.14
2449761.494 309614.794  19.39792    0.78    0.64    1   0.84    0.88    3369229 51  23  0   TF-03-10    787.14
2449761.494 309614.794  19.4996 0.76    0.6 1   0.73    0.75    4177963 64  43  0   TF-03-10    787.14
2449761.494 309614.794  19.598  0.9 0.58    1   0.76    0.94    3719856 57  32  0   TF-03-10    787.14
2449761.494 309614.794  19.67016    0.9 0.61    0.96    0.78    1   3259784 50  28  5   TF-03-10    787.14
2449761.494 309614.794  19.77184    0.73    0.58    1   0.77    0.81    4175989 64  35  0   TF-03-10    787.14
2449761.494 309614.794  19.87024    0.8 0.59    1   0.81    0.96    3563218 54  25  0   TF-03-10    787.14
2449761.494 309614.794  19.93912    0.87    0.66    1   0.84    1   2841006 43  20  0   TF-03-10    787.14
2449761.494 309614.794  20.0408 0.89    0.56    0.84    0.73    1   3681826 56  34  20  TF-03-10    787.14
2449761.494 309614.794  20.10968    0.92    0.48    0.94    0.72    1   4347031 66  36  8   TF-03-10    787.14
2449761.494 309614.794  20.21136    0.73    0.56    1   0.82    0.93    3934151 60  25  0   TF-03-10    787.14
2449761.494 309614.794  20.31304    0.76    0.53    1   0.71    0.89    4359496 67  41  0   TF-03-10    787.14
2449761.494 309614.794  20.3852 0.82    0.52    1   0.75    0.95    4211377 64  33  0   TF-03-10    787.14
2449761.494 309614.794  20.4836 0.8 0.59    1   0.87    0.96    3563210 54  17  0   TF-03-10    787.14
2449761.494 309614.794  20.58528    0.78    0.46    0.88    0.76    1   4516101 69  31  15  TF-03-10    787.14
2449761.494 309614.794  20.65416    0.77    0.54    1   0.75    0.96    3997729 61  33  0   TF-03-10    787.14
2449761.494 309614.794  20.75912    0.62    0.57    1   0.72    0.65    4850368 74  48  0   TF-03-10    787.14
2449761.494 309614.794  20.82472    0.79    0.49    1   0.73    0.94    4517433 69  36  0   TF-03-10    787.14
2449761.494 309614.794  20.9264 0.76    0.57    1   0.74    0.96    3736897 57  34  0   TF-03-10    787.14
2449761.494 309614.794  21.03136    0.69    0.49    1   0.88    0.94    4517413 69  16  0   TF-03-10    787.14
2449761.494 309614.794  21.10024    0.51    0.48    1   0.62    0.35    7169718 109 80  0   TF-03-10    787.14
2449761.494 309614.794  21.20192    0.71    0.49    1   0.72    0.9 4687829 72  39  0   TF-03-10    787.14
2449761.494 309614.794  21.30688    0.59    0.45    1   0.63    0.66    6158481 94  63  0   TF-03-10    787.14
2449761.494 309614.794  21.37248    0.52    0.57    1   0.61    0.3 6108040 93  85  0   TF-03-10    787.14
2449761.494 309614.794  21.47416    0.68    0.51    1   0.72    0.7 5322880 81  46  0   TF-03-10    787.14
2449761.494 309614.794  21.54304    0.8 0.51    1   0.75    0.95    4299195 66  33  0   TF-03-10    787.14
2449761.494 309614.794  21.64472    0.67    0.57    1   0.68    0.56    5174126 79  59  0   TF-03-10    787.14
2449761.494 309614.794  21.74968    0.82    0.55    0.97    0.75    1   3760813 57  32  4   TF-03-10    787.14
2449761.494 309614.794  21.81856    0.73    0.52    1   0.73    0.84    4652441 71  40  0   TF-03-10    787.14
2449761.494 309614.794  21.9104 0.85    0.48    0.92    0.74    1   4347681 66  33  10  TF-03-10    787.14
2449761.494 309614.794  21.91368    0.67    0.54    1   0.74    0.82    4535786 69  39  0   TF-03-10    787.14
2449761.494 309614.794  21.91696    0.7 0.52    1   0.67    0.76    4973579 76  52  0   TF-03-10    787.14
2449761.494 309614.794  21.9432 0.71    0.5 1   0.76    0.72    5347777 82  39  0   TF-03-10    787.14
2449761.494 309614.794  22.0416 0.74    0.53    1   0.75    0.71    5065974 77  41  0   TF-03-10    787.14
2449761.494 309614.794  22.11048    0.67    0.54    1   0.83    0.74    4843138 74  27  0   TF-03-10    787.14
2449761.494 309614.794  22.21216    0.71    0.57    1   0.7 0.66    4814981 73  51  0   TF-03-10    787.14
2449761.494 309614.794  22.31384    0.65    0.53    1   0.67    0.63    5380563 82  58  0   TF-03-10    787.14
2449761.494 309614.794  22.38272    0.73    0.59    1   0.85    0.92    3700183 56  21  0   TF-03-10    787.14
2449761.494 309614.794  22.4844 0.66    0.59    1   0.69    0.63    4693742 72  54  0   TF-03-10    787.14
2449761.494 309614.794  22.58608    0.6 0.53    1   0.64    0.48    5969744 91  70  0   TF-03-10    787.14
2449761.494 309614.794  22.65496    0.71    0.51    1   0.74    0.76    5077115 77  41  0   TF-03-10    787.14
2449761.494 309614.794  22.75992    0.76    0.5 1   0.73    0.87    4721252 72  39  0   TF-03-10    787.14
2449761.494 309614.794  22.8288 0.7 0.56    1   0.77    0.82    4338518 66  35  0   TF-03-10    787.14
2449761.494 309614.794  22.93048    0.69    0.46    1   0.74    0.82    5324184 81  39  0   TF-03-10    787.14
2449761.494 309614.794  23.03544    0.75    0.54    1   0.78    0.99    3882381 59  28  0   TF-03-10    787.14
2449761.494 309614.794  23.10432    0.63    0.49    1   0.62    0.48    6477652 99  74  0   TF-03-10    787.14
2449761.494 309614.794  23.206  0.79    0.51    1   0.75    0.97    4217274 64  33  0   TF-03-10    787.14
2449761.494 309614.794  23.30768    0.73    0.5 1   0.67    0.75    5222616 80  53  0   TF-03-10    787.14
2449761.494 309614.794  23.37984    0.81    0.53    0.95    0.72    1   3928586 60  36  6   TF-03-10    787.14
2449761.494 309614.794  23.4848 0.72    0.49    1   0.73    0.78    5199013 79  42  0   TF-03-10    787.14
2449761.494 309614.794  23.55368    0.63    0.52    1   0.64    0.56    5775754 88  66  0   TF-03-10    787.14
2449761.494 309614.794  23.65208    0.72    0.51    1   0.65    0.86    4667525 71  51  0   TF-03-10    787.14
2449761.494 309614.794  23.75704    0.77    0.54    1   0.66    0.77    4727820 72  53  0   TF-03-10    787.14
2449761.494 309614.794  23.85872    0.62    0.51    1   0.72    0.69    5363513 82  47  0   TF-03-10    787.14
2449761.494 309614.794  23.93088    0.49    0.37    1   0.66    0.37    8580699 131 71  0   TF-03-10    787.14
2449761.494 309614.794  24.03912    0.61    0.51    1   0.64    0.51    6100815 93  68  0   TF-03-10    787.14
2449761.494 309614.794  24.108  0.77    0.52    1   0.73    0.82    4733051 72  41  0   TF-03-10    787.14
2449761.494 309614.794  24.21296    0.72    0.49    1   0.66    0.7 5539814 85  56  0   TF-03-10    787.14
2449761.494 309614.794  24.31792    0.71    0.54    1   0.66    0.64    5227210 80  59  0   TF-03-10    787.14
2449761.494 309614.794  24.38024    0.69    0.56    1   0.77    0.67    4889680 75  39  0   TF-03-10    787.14
2449761.494 309614.794  24.4852 0.81    0.51    1   0.71    0.9 4503675 69  41  0   TF-03-10    787.14
2449761.494 309614.794  24.55408    0.66    0.52    1   0.71    0.65    5414634 83  50  0   TF-03-10    787.14
2449761.494 309614.794  24.65904    0.57    0.47    1   0.71    0.53    6510401 99  54  0   TF-03-10    787.14
2449761.494 309614.794  24.76072    0.55    0.45    1   0.66    0.42    7261457 111 68  0   TF-03-10    787.14
2449761.494 309614.794  24.83288    0.58    0.35    1   0.6 0.53    7984326 122 75  0   TF-03-10    787.14
2449761.494 309614.794  24.93456    0.5 0.37    1   0.61    0.44    8212394 125 78  0   TF-03-10    787.14
2449761.494 309614.794  25.03952    0.57    0.5 1   0.74    0.59    5891078 90  47  0   TF-03-10    787.14
2449761.494 309614.794  25.1084 0.51    0.52    1   0.67    0.15    7420064 113 78  0   TF-03-10    787.14
2449761.494 309614.794  25.18384    0.5 0.46    1   0.65    0.19    8167177 125 81  0   TF-03-10    787.14
2449761.494 309614.794  25.20352    0.55    0.47    1   0.72    0.58    6288885 96  51  0   TF-03-10    787.14
2449761.494 309614.794  25.2068 0.62    0.49    1   0.75    0.54    6222034 95  47  0   TF-03-10    787.14
2449761.494 309614.794  25.21008    0.53    0.43    1   0.58    0.27    8239934 126 93  0   TF-03-10    787.14
2449761.494 309614.794  25.24944    0.57    0.44    1   0.65    0.36    7674339 117 73  0   TF-03-10    787.14
2449761.494 309614.794  25.35112    0.5 0.45    1   0.74    0.24    8088511 123 58  0   TF-03-10    787.14
2449761.494 309614.794  25.42   0.7 0.43    1   0.68    0.62    6572662 100 56  0   TF-03-10    787.14
2449761.494 309614.794  25.52496    0.5 0.48    1   0.66    0.27    7517054 115 75  0   TF-03-10    787.14
2449761.494 309614.794  25.62336    0.57    0.38    1   0.66    0.46    7978419 122 67  0   TF-03-10    787.14
2449761.494 309614.794  25.69552    0.6 0.39    1   0.67    0.39    8206486 125 68  0   TF-03-10    787.14
2449761.494 309614.794  25.80048    0.65    0.55    1   0.69    0.52    5565376 85  58  0   TF-03-10    787.14
2449761.494 309614.794  25.86936    0.76    0.47    1   0.67    0.67    5889776 90  56  0   TF-03-10    787.14
2449761.494 309614.794  25.97432    0.67    0.44    1   0.59    0.4 7486916 114 84  0   TF-03-10    787.14
2449761.494 309614.794  26.07928    0.55    0.45    1   0.6 0.28    7905040 121 88  0   TF-03-10    787.14
2449761.494 309614.794  26.1416 0.74    0.44    1   0.69    0.68    6176820 94  52  0   TF-03-10    787.14
2449761.494 309614.794  26.17768    0.68    0.49    1   0.6 0.44    6648051 101 80  0   TF-03-10    787.14
```

Easting	Northing	Depth	@@Fluorescence	Channel1_Adjusted	Channel2_Adjusted	Channel3_Adjusted	Channel4_Adjusted	Adjusted_ColorCode	CalculatedRed	CalculatedBlue	CalculatedGreen	Boring	Top Depth Ft
1049	9	%	SU	SU	SU	SU	RGB	Red	Blue	Green			
2449446.896	310577.484	0	0.22	0	1	0.16	0.65	11280201	172	145	0	TF-05-02	826.538
2449446.896	310577.484	0.0164	-0.07	0.67	1	0.53	0	5514974	84	120	0	TF-05-02	826.538
2449446.896	310577.484	0.05904	0.7	0.74	1	0.29	0	4345218	66	181	0	TF-05-02	826.538
2449446.896	310577.484	0.08528	1.18	0.66	1	0.22	0	5682170	87	199	0	TF-05-02	826.538
2449446.896	310577.484	0.12464	0.69	0.62	1	0.26	0	6350627	97	189	0	TF-05-02	826.538
2449446.896	310577.484	0.19352	1.1	0.4	1	0.69	0.33	8372945	128	66	0	TF-05-02	826.538
2449446.896	310577.484	0.26568	0.27	0.32	1	0.54	0	11364060	173	117	0	TF-05-02	826.538
2449446.896	310577.484	0.2788	0.25	0.43	1	0.49	0	9525788	145	130	0	TF-05-02	826.538
2449446.896	310577.484	0.30176	0.21	0.31	1	0.5	0	11531187	176	128	0	TF-05-02	826.538
2449446.896	310577.484	0.37064	0.15	0.54	1	0.54	0	7687490	117	117	0	TF-05-02	826.538
2449446.896	310577.484	0.41656	0.1	0.58	1	0.52	0	7019028	107	122	0	TF-05-02	826.538
2449446.896	310577.484	0.48872	0.07	0.55	1	0.39	0	7520412	115	156	0	TF-05-02	826.538
2449446.896	310577.484	0.53464	0.12	0.57	1	0.46	0	7186160	110	138	0	TF-05-02	826.538
2449446.896	310577.484	0.61008	0.08	0.58	1	0.42	0	7019054	107	148	0	TF-05-02	826.538
2449446.896	310577.484	0.67896	0.04	0.53	1	0.41	0	7854640	120	150	0	TF-05-02	826.538
2449446.896	310577.484	0.72488	-0.01	0.62	1	0.44	0	6350581	97	143	0	TF-05-02	826.538
2449446.896	310577.484	0.78064	-0.01	0.66	1	0.44	0	5682114	87	143	0	TF-05-02	826.538
2449446.896	310577.484	0.81672	-0.02	0.64	1	0.44	0	6016348	92	143	0	TF-05-02	826.538
2449446.896	310577.484	0.86592	0.01	0.58	1	0.46	0	7019043	107	138	0	TF-05-02	826.538
2449446.896	310577.484	0.9184	0	0.59	1	0.32	0	6851962	105	173	0	TF-05-02	826.538
2449446.896	310577.484	0.92496	-0.01	0.61	1	0.4	0	6517708	99	153	0	TF-05-02	826.538
2449446.896	310577.484	0.94136	0.04	0.59	1	0.47	0	6851924	105	135	0	TF-05-02	826.538
2449446.896	310577.484	0.99384	0	0.5	1	0.37	0	8356001	128	161	0	TF-05-02	826.538
2449446.896	310577.484	1.02336	-0.03	0.65	1	0.44	0	5849231	89	143	0	TF-05-02	826.538
2449446.896	310577.484	1.05944	-0.01	0.61	1	0.39	0	6517711	99	156	0	TF-05-02	826.538
2449446.896	310577.484	1.07912	-0.01	0.68	1	0.46	0	5347875	82	138	0	TF-05-02	826.538
2449446.896	310577.484	1.10208	0.01	0.68	1	0.49	0	5347868	82	130	0	TF-05-02	826.538
2449446.896	310577.484	1.12504	0.01	0.61	1	0.37	0	6517716	99	161	0	TF-05-02	826.538
2449446.896	310577.484	1.16768	-0.11	0.69	1	0.47	0	5180756	79	135	0	TF-05-02	826.538
2449446.896	310577.484	1.1808	-0.08	0.65	1	0.45	0	5849228	89	140	0	TF-05-02	826.538
2449446.896	310577.484	1.20704	-0.05	0.56	1	0.43	0	7353285	112	145	0	TF-05-02	826.538
2449446.896	310577.484	1.24312	-0.06	0.69	1	0.52	0	5180743	79	122	0	TF-05-02	826.538
2449446.896	310577.484	1.26608	-0.12	0.73	1	0.51	0	4512279	69	125	0	TF-05-02	826.538
2449446.896	310577.484	1.29232	-0.05	0.64	1	0.43	0	6016350	92	145	0	TF-05-02	826.538
2449446.896	310577.484	1.32512	-0.03	0.51	1	0.38	0	8188881	125	158	0	TF-05-02	826.538
2449446.896	310577.484	1.3448	-0.04	0.58	1	0.42	0	7019054	107	148	0	TF-05-02	826.538
2449446.896	310577.484	1.35464	-0.06	0.59	1	0.41	0	6851939	105	150	0	TF-05-02	826.538
2449446.896	310577.484	1.35792	-0.11	0.62	1	0.46	0	6350576	97	138	0	TF-05-02	826.538
2449446.896	310577.484	1.3612	-0.08	0.64	1	0.51	0	6016330	92	125	0	TF-05-02	826.538
2449446.896	310577.484	1.36776	-0.06	0.68	1	0.53	0	5347857	82	120	0	TF-05-02	826.538
2449446.896	310577.484	1.37432	-0.11	0.61	1	0.52	0	6517678	99	122	0	TF-05-02	826.538
2449446.896	310577.484	1.39072	-0.1	0.68	1	0.52	0	5347860	82	122	0	TF-05-02	826.538
2449446.896	310577.484	1.394	-0.08	0.7	1	0.51	0	5013629	76	125	0	TF-05-02	826.538
2449446.896	310577.484	1.39728	-0.07	0.58	1	0.45	0	7019046	107	140	0	TF-05-02	826.538
2449451.249	310614.238	0	1.05	0.21	0.58	0.6	1	6614546	101	51	54	TF-05-03	828.223
2449451.249	310614.238	0.02296	-0.07	0.58	1	0.64	0	7018997	107	92	0	TF-05-03	828.223
2449451.249	310614.238	0.09184	-0.02	0.55	1	0.55	0	7520371	115	115	0	TF-05-03	828.223
2449451.249	310614.238	0.19352	-0.02	0.56	1	0.42	0	7353287	112	148	0	TF-05-03	828.223
2449451.249	310614.238	0.23616	1.89	0.66	1	0.48	0.33	4744262	72	111	0	TF-05-03	828.223
2449451.249	310614.238	0.23944	2.16	0.66	1	0.55	0.32	4773083	73	96	0	TF-05-03	828.223
2449451.249	310614.238	0.25584	1.96	0.41	1	0.76	0.41	7838810	120	49	0	TF-05-03	828.223
2449451.249	310614.238	0.2624	1.7	0.3	0.92	1	0.56	8426447	129	0	15	TF-05-03	828.223
2449451.249	310614.238	0.27552	1.9	0.22	0.71	1	0.69	8550431	130	0	48	TF-05-03	828.223
2449451.249	310614.238	0.29192	1.15	0.28	0.89	1	0.59	8488044	129	0	20	TF-05-03	828.223
2449451.249	310614.238	0.30832	1.13	0.4	1	0.81	0.37	8172379	125	39	0	TF-05-03	828.223
2449451.249	310614.238	0.31488	1.04	0.36	1	0.91	0.4	8556399	131	18	0	TF-05-03	828.223
2449451.249	310614.238	0.31816	1.01	0.34	1	0.86	0.47	8437787	129	27	0	TF-05-03	828.223
2449451.249	310614.238	0.328	0.44	0.42	1	0.71	0.11	9160037	140	70	0	TF-05-03	828.223
2449451.249	310614.238	0.37392	0.57	0.31	1	0.84	0.26	10032286	153	36	0	TF-05-03	828.223
2449451.249	310614.238	0.38376	0.3	0.37	1	0.51	0	10528483	161	125	0	TF-05-03	828.223
2449451.249	310614.238	0.39688	0.33	0.23	1	0.68	0	12868075	196	82	0	TF-05-03	828.223
2449451.249	310614.238	0.40344	0.19	0.53	1	0.8	0	7854541	120	51	0	TF-05-03	828.223
2449451.249	310614.238	0.41	0.24	0.51	1	0.63	0	8188818	125	94	0	TF-05-03	828.223
2449451.249	310614.238	0.41328	0.22	0.37	1	0.54	0	10528476	161	117	0	TF-05-03	828.223
2449455.491	310659.55	0	1.07	0.23	0.85	1	0.79	7790945	119	0	23	TF-05-04	828.42
2449455.491	310659.55	0.02952	0.13	0.38	1	0.55	0	10361356	158	115	0	TF-05-04	828.42
2449455.491	310659.55	0.05248	0.16	0.35	1	0.41	0	10862742	166	150	0	TF-05-04	828.42
2449455.491	310659.55	0.14432	0.42	0.35	1	0.28	0	10862776	166	184	0	TF-05-04	828.42
2449455.491	310659.55	0.20008	1.13	0.53	1	0.4	0.2	7068851	108	138	0	TF-05-04	828.42
2449455.491	310659.55	0.23616	1.33	0.55	1	0.39	0.19	6806054	104	141	0	TF-05-04	828.42
2449455.491	310659.55	0.33784	2.35	0.65	1	0.61	0.47	4474874	68	76	0	TF-05-04	828.42
2449455.491	310659.55	0.43952	0.7	0.32	1	0.81	0.43	8920798	136	38	0	TF-05-04	828.42
2449455.491	310659.55	0.51496	0.65	0.37	1	0.75	0.39	8475167	129	51	0	TF-05-04	828.42
2449455.491	310659.55	0.61992	0.34	0.37	1	0.4	0	10528511	161	153	0	TF-05-04	828.42
2449455.491	310659.55	0.7216	0.39	0.36	1	0.56	0.04	10481938	160	110	0	TF-05-04	828.42
2449455.491	310659.55	0.79048	0.34	0.42	1	0.45	0	9692915	148	140	0	TF-05-04	828.42
2449455.491	310659.55	0.8856	0.36	0.28	1	0.43	0	12032555	184	145	0	TF-05-04	828.42
2449455.491	310659.55	0.98728	0.36	0.33	1	0.47	0	11196961	171	135	0	TF-05-04	828.42
2449455.491	310659.55	1.08568	0.39	0.27	1	0.43	0.03	12016824	183	143	0	TF-05-04	828.42
2449455.491	310659.55	1.15456	0.3	0.4	1	0.55	0	10027123	153	115	0	TF-05-04	828.42
2449455.491	310659.55	1.25296	0.36	0.4	1	0.53	0	10027128	153	120	0	TF-05-04	828.42
2449455.491	310659.55	1.32184	0.34	0.37	1	0.53	0	10528478	161	120	0	TF-05-04	828.42
2449455.491	310659.55	1.42024	0.27	0.39	1	0.51	0	10194250	156	125	0	TF-05-04	828.42
2449455.491	310659.55	1.51536	0.29	0.39	1	0.45	0	10194265	156	140	0	TF-05-04	828.42
2449455.491	310659.55	1.57768	0.28	0.44	1	0.44	0	9358684	143	143	0	TF-05-04	828.42
2449455.491	310659.55	1.66952	0.3	0.38	1	0.44	0	10361384	158	143	0	TF-05-04	828.42
2449455.491	310659.55	1.76136	0.27	0.46	1	0.5	0	9024435	138	128	0	TF-05-04	828.42
2449455.491	310659.55	1.82696	0.2	0.45	1	0.57	0	9191534	140	110	0	TF-05-04	828.42
2449455.491	310659.55	1.89912	0.22	0.41	1	0.51	0	9860016	150	125	0	TF-05-04	828.42
2449455.491	310659.55	1.9188	0.31	0.43	1	0.35	0	9525823	145	166	0	TF-05-04	828.42
2449455.491	310659.55	1.9516	0.31	0.39	1	0.37	0	10194285	156	161	0	TF-05-04	828.42
2449455.491	310659.55	1.97784	0.3	0.48	1	0.41	0	8690224	133	150	0	TF-05-04	828.42
2449455.491	310659.55	2.0172	0.25	0.43	1	0.42	0	9525806	145	148	0	TF-05-04	828.42
2449455.491	310659.55	2.04344	0.25	0.46	1	0.4	0	9024460	138	153	0	TF-05-04	828.42
2449455.491	310659.55	2.09264	0.25	0.42	1	0.45	0	9692915	148	140	0	TF-05-04	828.42
2449455.491	310659.55	2.12216	0.24	0.43	1	0.5	0	9525785	145	128	0	TF-05-04	828.42
2449455.491	310659.55	2.15824	0.29	0.42	1	0.41	0	9692925	148	150	0	TF-05-04	828.42
2449455.491	310659.55	2.1648	0.25	0.35	1	0.47	0	10862727	166	135	0	TF-05-04	828.42

```
2449455.491 310659.55   2.17136 0.22    0.38    1   0.5 0   10361369    158 128 0   TF-05-04    828.42
2449455.491 310659.55   2.20416 0.21    0.34    1   0.49    0   11029839    168 130 0   TF-05-04    828.42
2449455.491 310659.55   2.22056 0.23    0.29    1   0.46    0   11865430    181 138 0   TF-05-04    828.42
2449455.491 310659.55   2.25664 0.17    0.37    1   0.5 0   10528486    161 128 0   TF-05-04    828.42
2449455.491 310659.55   2.27304 0.16    0.39    1   0.54    0   10194242    156 117 0   TF-05-04    828.42
2449455.491 310659.55   2.29928 0.17    0.36    1   0.43    0   10695621    163 145 0   TF-05-04    828.42
2449455.491 310659.55   2.31568 0.12    0.31    1   0.4 0   11531212    176 153 0   TF-05-04    828.42
2449455.491 310659.55   2.33208 0.16    0.49    1   0.47    0   8523092 130 135 0   TF-05-04    828.42
2449455.491 310659.55   2.34848 0.11    0.38    1   0.47    0   10361377    158 135 0   TF-05-04    828.42
2449455.491 310659.55   2.37472 0.15    0.36    1   0.49    0   10695605    163 130 0   TF-05-04    828.42
2449455.491 310659.55   2.38456 0.13    0.44    1   0.43    0   9358686 143 145 0   TF-05-04    828.42
2449455.491 310659.55   2.38784 0.15    0.31    1   0.57    0   11531169    176 110 0   TF-05-04    828.42
2449455.491 310659.55   2.39768 0.17    0.34    1   0.42    0   11029857    168 148 0   TF-05-04    828.42
2449455.491 310659.55   2.40424 0.16    0.38    1   0.49    0   10361372    158 130 0   TF-05-04    828.42
2449497.44  310596.589  0   0.67    0.25    0.53    0.39    1   6281970 96  78  60  TF-05-05    826.032
2449497.44  310596.589  0.0164  0.18    0.36    1   0.34    0   10695644    163 168 0   TF-05-05    826.032
2449497.44  310596.589  0.07216 0.21    0.35    1   0.39    0   10862748    166 156 0   TF-05-05    826.032
2449497.44  310596.589  0.14104 0.21    0.37    1   0.51    0   10528483    161 125 0   TF-05-05    826.032
2449497.44  310596.589  0.18368 0.19    0.53    1   0.51    0   7854615 120 125 0   TF-05-05    826.032
2449497.44  310596.589  0.20992 0.18    0.51    1   0.42    0   8188871 125 148 0   TF-05-05    826.032
2449497.44  310596.589  0.2296  0.3 0.41    1   0.43    0   9860037 150 145 0   TF-05-05    826.032
2449497.44  310596.589  0.34112 2.38    0.67    1   0.68    0.56    3970885 61  59  0   TF-05-05    826.032
2449497.44  310596.589  0.41328 1.86    0.65    1   0.41    0.1 5556940 85  143 0   TF-05-05    826.032
2449497.44  310596.589  0.51824 0.78    0.38    1   0.34    0.05    10102538    154 164 0   TF-05-05    826.032
2449497.44  310596.589  0.62648 0.55    0.39    1   0.46    0   10194262    156 138 0   TF-05-05    826.032
2449497.44  310596.589  0.69208 0.36    0.4 1   0.33    0   10027179    153 171 0   TF-05-05    826.032
2449497.44  310596.589  0.79376 0.29    0.55    1   0.44    0   7520399 115 143 0   TF-05-05    826.032
2449497.44  310596.589  0.89872 0.26    0.34    1   0.4 0   11029862    168 153 0   TF-05-05    826.032
2449497.44  310596.589  0.96432 0.27    0.52    1   0.45    0   8021747 122 140 0   TF-05-05    826.032
2449497.44  310596.589  1.066   0.3 0.49    1   0.38    0   8523115 130 158 0   TF-05-05    826.032
2449497.44  310596.589  1.16768 0.35    0.47    1   0.41    0   8857341 135 150 0   TF-05-05    826.032
2449497.44  310596.589  1.23656 0.28    0.49    1   0.42    0   8523105 130 148 0   TF-05-05    826.032
2449497.44  310596.589  1.33496 0.27    0.61    1   0.41    0   6517706 99  150 0   TF-05-05    826.032
2449497.44  310596.589  1.40384 0.26    0.45    1   0.37    0   9191585 140 161 0   TF-05-05    826.032
2449497.44  310596.589  1.5088  0.23    0.41    1   0.37    0   9860052 150 161 0   TF-05-05    826.032
2449497.44  310596.589  1.6072  0.25    0.44    1   0.37    0   9358701 143 161 0   TF-05-05    826.032
2449497.44  310596.589  1.67936 0.3 0.4 1   0.36    0   10027171    153 163 0   TF-05-05    826.032
2449497.44  310596.589  1.78104 0.34    0.45    1   0.32    0   9191597 140 173 0   TF-05-05    826.032
2449497.44  310596.589  1.84992 0.33    0.41    1   0.3 0   9860070 150 178 0   TF-05-05    826.032
2449497.44  310596.589  1.95488 0.43    0.5 1   0.38    0   8355998 128 158 0   TF-05-05    826.032
2449497.44  310596.589  2.05656 0.4 0.51    1   0.32    0   8188897 125 173 0   TF-05-05    826.032
2449497.44  310596.589  2.12544 0.4 0.48    1   0.32    0   8690247 133 173 0   TF-05-05    826.032
2449497.44  310596.589  2.2304  0.34    0.49    1   0.37    0   8523117 130 161 0   TF-05-05    826.032
2449497.44  310596.589  2.33864 0.29    0.49    1   0.36    0   8523120 130 163 0   TF-05-05    826.032
2449497.44  310596.589  2.40752 0.3 0.38    1   0.39    0   10361397    158 156 0   TF-05-05    826.032
2449497.44  310596.589  2.5092  0.3 0.46    1   0.34    0   9024476 138 168 0   TF-05-05    826.032
2449497.44  310596.589  2.6076  0.34    0.45    1   0.34    0   9191592 140 168 0   TF-05-05    826.032
2449497.44  310596.589  2.66992 0.32    0.46    1   0.42    0   9024455 138 148 0   TF-05-05    826.032
2449497.44  310596.589  2.6732  0.37    0.38    1   0.42    0   10361390    158 148 0   TF-05-05    826.032
2449497.44  310596.589  2.71256 0.39    0.42    1   0.4 0   9692927 148 153 0   TF-05-05    826.032
2449497.44  310596.589  2.74536 0.33    0.5 1   0.4 0   8355993 128 153 0   TF-05-05    826.032
2449497.44  310596.589  2.8536  0.31    0.46    1   0.28    0   9024491 138 184 0   TF-05-05    826.032
2449497.44  310596.589  2.92248 0.24    0.49    1   0.49    0   8523087 130 130 0   TF-05-05    826.032
2449497.44  310596.589  3.034   0.2 0.43    1   0.38    0   9525816 145 158 0   TF-05-05    826.032
2449497.44  310596.589  3.11928 0.17    0.42    1   0.46    0   9692912 148 138 0   TF-05-05    826.032
2449497.44  310596.589  3.15208 0.24    0.47    1   0.45    0   8857331 135 140 0   TF-05-05    826.032
2449497.44  310596.589  3.16848 0.24    0.35    1   0.39    0   10862748    166 156 0   TF-05-05    826.032
2449497.44  310596.589  3.27672 0.23    0.42    1   0.47    0   9692910 148 135 0   TF-05-05    826.032
2449497.44  310596.589  3.38168 0.2 0.41    1   0.42    0   9860039 150 148 0   TF-05-05    826.032
2449497.44  310596.589  3.45384 0.16    0.48    1   0.5 0   8690201 133 128 0   TF-05-05    826.032
2449497.44  310596.589  3.55224 0.19    0.37    1   0.44    0   10528501    161 143 0   TF-05-05    826.032
2449497.44  310596.589  3.66704 0.19    0.36    1   0.4 0   10695628    163 153 0   TF-05-05    826.032
2449497.44  310596.589  3.7392  0.19    0.44    1   0.37    0   9358701 143 161 0   TF-05-05    826.032
2449497.44  310596.589  3.85072 0.26    0.33    1   0.34    0   11196994    171 168 0   TF-05-05    826.032
2449497.44  310596.589  3.95896 0.32    0.38    1   0.35    0   10361407    158 166 0   TF-05-05    826.032
2449497.44  310596.589  4.03112 0.21    0.39    1   0.36    0   10194288    156 163 0   TF-05-05    826.032
2449497.44  310596.589  4.14264 0.19    0.37    1   0.37    0   10528519    161 161 0   TF-05-05    826.032
2449497.44  310596.589  4.24104 0.23    0.49    1   0.33    0   8523128 130 171 0   TF-05-05    826.032
2449497.44  310596.589  4.30992 0.24    0.44    1   0.48    0   9358673 143 133 0   TF-05-05    826.032
2449497.44  310596.589  4.4116  0.21    0.52    1   0.39    0   8021762 122 156 0   TF-05-05    826.032
2449497.44  310596.589  4.4772  0.19    0.39    1   0.33    0   10194296    156 171 0   TF-05-05    826.032
2449497.44  310596.589  4.5756  0.22    0.31    1   0.35    0   11531225    176 166 0   TF-05-05    826.032
2449497.44  310596.589  4.67728 0.21    0.43    1   0.48    0   9525790 145 133 0   TF-05-05    826.032
2449497.44  310596.589  4.74288 0.23    0.4 1   0.36    0   10027171    153 163 0   TF-05-05    826.032
2449497.44  310596.589  4.84456 0.23    0.4 1   0.35    0   10027174    153 166 0   TF-05-05    826.032
2449497.44  310596.589  4.94296 0.22    0.36    1   0.32    0   10695649    163 173 0   TF-05-05    826.032
2449497.44  310596.589  5.00528 0.24    0.43    1   0.36    0   9525821 145 163 0   TF-05-05    826.032
2449497.44  310596.589  5.1004  0.13    0.5 1   0.53    0   8355960 128 120 0   TF-05-05    826.032
2449497.44  310596.589  5.16272 0.15    0.45    1   0.45    0   9191564 140 140 0   TF-05-05    826.032
2449497.44  310596.589  5.20208 0.18    0.37    1   0.45    0   10528499    161 140 0   TF-05-05    826.032
2449497.44  310596.589  5.27752 0.21    0.36    1   0.29    0   10695656    163 181 0   TF-05-05    826.032
2449497.44  310596.589  5.32672 0.2 0.43    1   0.45    0   9525798 145 140 0   TF-05-05    826.032
2449497.44  310596.589  5.39888 0.18    0.35    1   0.44    0   10862735    166 143 0   TF-05-05    826.032
2449497.44  310596.589  5.45792 0.16    0.49    1   0.4 0   8523110 130 153 0   TF-05-05    826.032
2449497.44  310596.589  5.52024 0.23    0.39    1   0.3 0   10194303    156 178 0   TF-05-05    826.032
2449497.44  310596.589  5.60552 0.2 0.36    1   0.38    0   10695633    163 158 0   TF-05-05    826.032
2449497.44  310596.589  5.66128 0.14    0.42    1   0.47    0   9692910 148 135 0   TF-05-05    826.032
2449497.44  310596.589  5.71376 0.17    0.33    1   0.44    0   11196968    171 143 0   TF-05-05    826.032
2449497.44  310596.589  5.76952 0.19    0.36    1   0.39    0   10695631    163 156 0   TF-05-05    826.032
2449497.44  310596.589  5.7892  0.26    0.23    1   0.45    0   12868134    196 140 0   TF-05-05    826.032
2449497.44  310596.589  5.79248 0.23    0.41    1   0.41    0   9860042 150 150 0   TF-05-05    826.032
2449497.44  310596.589  5.79576 0.08    0.45    1   0.5 0   9191552 140 128 0   TF-05-05    826.032
2449497.44  310596.589  5.81544 0.09    0.52    1   0.47    0   8021742 122 135 0   TF-05-05    826.032
2449497.44  310596.589  5.84824 0.05    0.44    1   0.43    0   9358686 143 145 0   TF-05-05    826.032
2449497.44  310596.589  5.87448 0.08    0.52    1   0.45    0   8021747 122 140 0   TF-05-05    826.032
2449497.44  310596.589  5.92368 0.09    0.38    1   0.45    0   10361382    158 140 0   TF-05-05    826.032
2449497.44  310596.589  5.94664 0.11    0.42    1   0.48    0   9692907 148 133 0   TF-05-05    826.032
2449497.44  310596.589  5.98272 0.09    0.38    1   0.32    0   10361415    158 173 0   TF-05-05    826.032
2449497.44  310596.589  6.02208 0.07    0.43    1   0.47    0   9525793 145 135 0   TF-05-05    826.032
2449497.44  310596.589  6.04176 0.11    0.42    1   0.52    0   9692897 148 122 0   TF-05-05    826.032
2449497.44  310596.589  6.07784 0.1 0.43    1   0.41    0   9525808 145 150 0   TF-05-05    826.032
2449497.44  310596.589  6.10736 0.09    0.35    1   0.44    0   10862735    166 143 0   TF-05-05    826.032
```

```
2449497.44  310596.589  6.1172  0.08    0.47    1   0.48    0   8857323 135 133 0   TF-05-05    826.032
2449497.44  310596.589  6.15328 0.1 0.42    1   0.47    0   9692910 148 135 0   TF-05-05    826.032
2449497.44  310596.589  6.16968 0.16    0.33    1   0.33    0   11196996    171 171 0   TF-05-05    826.032
2449497.44  310596.589  6.20248 0.13    0.4 1   0.4 0   10027161    153 153 0   TF-05-05    826.032
2449497.44  310596.589  6.22544 0.12    0.47    1   0.55    0   8857305 135 115 0   TF-05-05    826.032
2449497.44  310596.589  6.232   0.09    0.42    1   0.38    0   9692932 148 158 0   TF-05-05    826.032
2449497.44  310596.589  6.26152 0.11    0.42    1   0.39    0   9692930 148 156 0   TF-05-05    826.032
2449497.44  310596.589  6.27464 0.1 0.48    1   0.49    0   8690204 133 130 0   TF-05-05    826.032
2449497.44  310596.589  6.27792 0.11    0.47    1   0.49    0   8857320 135 130 0   TF-05-05    826.032
2449497.44  310596.589  6.28448 0.09    0.45    1   0.52    0   9191546 140 122 0   TF-05-05    826.032
2449497.44  310596.589  6.29104 0.07    0.43    1   0.45    0   9525798 145 140 0   TF-05-05    826.032
2449497.44  310596.589  6.32712 0.07    0.44    1   0.4 0   9358694 143 153 0   TF-05-05    826.032
2449497.44  310596.589  6.3304  0.09    0.45    1   0.35    0   9191590 140 166 0   TF-05-05    826.032
2449497.44  310596.589  6.3468  0.11    0.59    1   0.53    0   6851909 105 120 0   TF-05-05    826.032
2449497.44  310596.589  6.36648 0.12    0.39    1   0.38    0   10194283    156 158 0   TF-05-05    826.032
2449497.44  310596.589  6.37304 0.09    0.41    1   0.5 0   9860019 150 128 0   TF-05-05    826.032
2449497.44  310596.589  6.38616 0.08    0.5 1   0.47    0   8355975 128 135 0   TF-05-05    826.032
2449497.44  310596.589  6.38944 0.11    0.48    1   0.47    0   8690209 133 135 0   TF-05-05    826.032
2449497.44  310596.589  6.396   0.1 0.49    1   0.38    0   8523115 130 158 0   TF-05-05    826.032
2449497.44  310596.589  6.40256 0.09    0.5 1   0.41    0   8355990 128 150 0   TF-05-05    826.032
2449497.44  310596.589  6.44192 0.09    0.41    1   0.4 0   9860044 150 153 0   TF-05-05    826.032
2449497.44  310596.589  6.46488 0.14    0.38    1   0.37    0   10361402    158 161 0   TF-05-05    826.032
2449497.44  310596.589  6.50096 0.11    0.43    1   0.4 0   9525811 145 153 0   TF-05-05    826.032
2449497.44  310596.589  6.53704 0.12    0.46    1   0.44    0   9024450 138 143 0   TF-05-05    826.032
2449497.44  310596.589  6.57312 0.08    0.47    1   0.49    0   8857320 135 130 0   TF-05-05    826.032
2449497.44  310596.589  6.6092  0.03    0.53    1   0.52    0   7854612 120 122 0   TF-05-05    826.032
2449497.44  310596.589  6.65512 0.15    0.4 1   0.37    0   10027169    153 161 0   TF-05-05    826.032
2449497.44  310596.589  6.72728 0.05    0.52    1   0.52    0   8021729 122 122 0   TF-05-05    826.032
2449497.44  310596.589  6.81912 0.13    0.45    1   0.41    0   9191574 140 150 0   TF-05-05    826.032
2449497.44  310596.589  6.8388  0.07    0.61    1   0.55    0   6517670 99  115 0   TF-05-05    826.032
2449497.44  310596.589  6.84864 0.08    0.47    1   0.38    0   8857348 135 158 0   TF-05-05    826.032
2449497.44  310596.589  6.86832 0.1 0.44    1   0.57    0   9358650 143 110 0   TF-05-05    826.032
2449497.44  310596.589  6.88144 0.09    0.5 1   0.42    0   8355988 128 148 0   TF-05-05    826.032
2449497.44  310596.589  6.90112 0.12    0.44    1   0.44    0   9358684 143 143 0   TF-05-05    826.032
2449497.44  310596.589  6.9208  0.08    0.55    1   0.44    0   7520399 115 143 0   TF-05-05    826.032
2449497.44  310596.589  6.9536  0.1 0.43    1   0.42    0   9525806 145 148 0   TF-05-05    826.032
2449497.44  310596.589  6.97984 0.11    0.4 1   0.41    0   10027158    153 150 0   TF-05-05    826.032
2449497.44  310596.589  6.99624 0.1 0.46    1   0.42    0   9024455 138 148 0   TF-05-05    826.032
2449485.786 310562.695  0   0.12    0   1   0.32    0.64    11364060    173 118 0   TF-05-06    826.074
2449485.786 310562.695  0.03608 0.1 0.48    1   0.31    0   8690250 133 176 0   TF-05-06    826.074
2449485.786 310562.695  0.10168 0.15    0.45    1   0.35    0   9191590 140 166 0   TF-05-06    826.074
2449485.786 310562.695  0.19352 0.5 0.49    1   0.32    0   8523130 130 173 0   TF-05-06    826.074
2449485.786 310562.695  0.28864 1.7 0.68    1   0.41    0.21    4786229 73  135 0   TF-05-06    826.074
2449485.786 310562.695  0.35424 0.46    0.34    1   0.45    0.19    9981915 152 127 0   TF-05-06    826.074
2449485.786 310562.695  0.43296 0.53    0.34    1   0.5 0.15    10202762    156 118 0   TF-05-06    826.074
2449485.786 310562.695  0.50512 0.33    0.34    1   0.37    0.07    10643857    162 155 0   TF-05-06    826.074
2449485.786 310562.695  0.52152 0.27    0.4 1   0.45    0   10027148    153 140 0   TF-05-06    826.074
2449485.786 310562.695  0.574   0.32    0.38    1   0.43    0.06    10050742    153 141 0   TF-05-06    826.074
2449485.786 310562.695  0.61336 0.24    0.29    1   0.33    0   11865464    181 171 0   TF-05-06    826.074
2449485.786 310562.695  0.66584 0.19    0.39    1   0.37    0   10194285    156 161 0   TF-05-06    826.074
2449485.786 310562.695  0.67896 0.15    0.52    1   0.47    0   8021742 122 135 0   TF-05-06    826.074
2449485.786 310562.695  0.70848 0.21    0.47    1   0.36    0   8857354 135 163 0   TF-05-06    826.074
2449485.786 310562.695  0.77408 0.16    0.42    1   0.39    0   9692930 148 156 0   TF-05-06    826.074
2449485.786 310562.695  0.81672 0.25    0.36    1   0.28    0   10695659    163 184 0   TF-05-06    826.074
2449485.786 310562.695  0.86264 0.25    0.45    1   0.34    0   9191592 140 168 0   TF-05-06    826.074
2449485.786 310562.695  0.90528 0.25    0.5 1   0.4 0   8355993 128 153 0   TF-05-06    826.074
2449485.786 310562.695  0.91184 0.17    0.48    1   0.47    0   8690209 133 135 0   TF-05-06    826.074
2449485.786 310562.695  0.94464 0.23    0.46    1   0.36    0   9024470 138 163 0   TF-05-06    826.074
2449485.786 310562.695  0.98728 0.18    0.49    1   0.39    0   8523112 130 156 0   TF-05-06    826.074
2449485.786 310562.695  1.01352 0.16    0.5 1   0.31    0   8356016 128 176 0   TF-05-06    826.074
2449485.786 310562.695  1.06272 0.17    0.44    1   0.35    0   9358707 143 166 0   TF-05-06    826.074
2449485.786 310562.695  1.09224 0.14    0.47    1   0.44    0   8857333 135 143 0   TF-05-06    826.074
2449485.786 310562.695  1.12832 0.15    0.49    1   0.38    0   8523115 130 158 0   TF-05-06    826.074
2449485.786 310562.695  1.16768 0.15    0.47    1   0.43    0   8857336 135 145 0   TF-05-06    826.074
2449485.786 310562.695  1.1808  0.16    0.46    1   0.36    0   9024470 138 163 0   TF-05-06    826.074
2449485.786 310562.695  1.23328 0.16    0.45    1   0.33    0   9191595 140 171 0   TF-05-06    826.074
2449485.786 310562.695  1.29888 0.18    0.37    1   0.34    0   10528527    161 168 0   TF-05-06    826.074
2449485.786 310562.695  1.3612  0.17    0.53    1   0.41    0   7854640 120 150 0   TF-05-06    826.074
2449485.786 310562.695  1.43008 0.18    0.49    1   0.36    0   8523120 130 163 0   TF-05-06    826.074
2449485.786 310562.695  1.50224 0.27    0.41    1   0.35    0   9860057 150 166 0   TF-05-06    826.074
2449485.786 310562.695  1.53176 0.22    0.45    1   0.36    0   9191587 140 163 0   TF-05-06    826.074
2449485.786 310562.695  1.56128 0.21    0.45    1   0.36    0   9191587 140 163 0   TF-05-06    826.074
2449485.786 310562.695  1.57768 0.21    0.42    1   0.38    0   9692932 148 158 0   TF-05-06    826.074
2449485.786 310562.695  1.58752 0.19    0.48    1   0.5 0   8690201 133 128 0   TF-05-06    826.074
2449485.786 310562.695  1.61376 0.17    0.37    1   0.28    0   10528542    161 184 0   TF-05-06    826.074
2449485.786 310562.695  1.62032 0.16    0.37    1   0.3 0   10528537    161 178 0   TF-05-06    826.074
2449485.786 310562.695  1.6236  0.17    0.38    1   0.41    0   10361392    158 150 0   TF-05-06    826.074
2449485.786 310562.695  1.62688 0.18    0.49    1   0.42    0   8523105 130 148 0   TF-05-06    826.074
2449485.786 310562.695  1.63672 0.16    0.44    1   0.3 0   9358719 143 178 0   TF-05-06    826.074
2449485.786 310562.695  1.65312 0.14    0.42    1   0.42    0   9692922 148 148 0   TF-05-06    826.074
2449485.786 310562.695  1.6728  0.19    0.53    1   0.4 0   7854643 120 153 0   TF-05-06    826.074
2449485.786 310562.695  1.68264 0.23    0.4 1   0.33    0   10027179    153 171 0   TF-05-06    826.074
2449485.786 310562.695  1.69576 0.21    0.57    1   0.38    0   7186180 110 158 0   TF-05-06    826.074
2449485.786 310562.695  1.71872 0.19    0.47    1   0.35    0   8857356 135 166 0   TF-05-06    826.074
2449485.786 310562.695  1.76136 0.2 0.41    1   0.38    0   9860049 150 158 0   TF-05-06    826.074
2449485.786 310562.695  1.804   0.18    0.43    1   0.32    0   9525831 145 173 0   TF-05-06    826.074
2449485.786 310562.695  1.80728 0.16    0.45    1   0.26    0   9191613 140 189 0   TF-05-06    826.074
2449485.786 310562.695  1.8204  0.15    0.49    1   0.49    0   8523087 130 130 0   TF-05-06    826.074
2449485.786 310562.695  1.82696 0.15    0.48    1   0.37    0   8690234 133 161 0   TF-05-06    826.074
2449485.786 310562.695  1.84664 0.17    0.5 1   0.37    0   8356001 128 161 0   TF-05-06    826.074
2449485.786 310562.695  1.84992 0.14    0.53    1   0.51    0   7854615 120 125 0   TF-05-06    826.074
2449485.786 310562.695  1.8532  0.14    0.39    1   0.33    0   10194296    156 171 0   TF-05-06    826.074
2449485.786 310562.695  1.87944 0.15    0.45    1   0.34    0   9191592 140 168 0   TF-05-06    826.074
2449485.786 310562.695  1.91224 0.17    0.52    1   0.45    0   8021747 122 140 0   TF-05-06    826.074
2449485.786 310562.695  1.94504 0.14    0.49    1   0.39    0   8523112 130 156 0   TF-05-06    826.074
2449485.786 310562.695  1.968   0.15    0.39    1   0.36    0   10194288    156 163 0   TF-05-06    826.074
2449485.786 310562.695  2.02704 0.16    0.51    1   0.48    0   8188856 125 133 0   TF-05-06    826.074
2449485.786 310562.695  2.05656 0.16    0.53    1   0.4 0   7854643 120 153 0   TF-05-06    826.074
2449485.786 310562.695  2.08608 0.14    0.46    1   0.39    0   9024463 138 156 0   TF-05-06    826.074
2449485.786 310562.695  2.12872 0.17    0.5 1   0.43    0   8355985 128 145 0   TF-05-06    826.074
2449485.786 310562.695  2.132   0.2 0.44    1   0.39    0   9358696 143 156 0   TF-05-06    826.074
2449485.786 310562.695  2.14512 0.18    0.5 1   0.41    0   8355990 128 150 0   TF-05-06    826.074
```

```
2449485.786 310562.695  2.17136 0.17    0.55    1   0.37    0   7520417 115 161 0   TF-05-06    826.074
2449485.786 310562.695  2.21728 0.16    0.47    1   0.3 0   8857369 135 178 0   TF-05-06    826.074
2449485.786 310562.695  2.22712 0.14    0.57    1   0.4 0   7186175 110 153 0   TF-05-06    826.074
2449485.786 310562.695  2.2304  0.14    0.48    1   0.41    0   8690224 133 150 0   TF-05-06    826.074
2449485.786 310562.695  2.23696 0.2 0.44    1   0.31    0   9358717 143 176 0   TF-05-06    826.074
2449485.786 310562.695  2.25008 0.2 0.33    1   0.31    0   11197002    171 176 0   TF-05-06    826.074
2449485.786 310562.695  2.25992 0.17    0.41    1   0.35    0   9860057 150 166 0   TF-05-06    826.074
2449485.786 310562.695  2.26648 0.15    0.57    1   0.39    0   7186178 110 156 0   TF-05-06    826.074
2449485.786 310562.695  2.296   0.14    0.45    1   0.48    0   9191557 140 133 0   TF-05-06    826.074
2449485.786 310562.695  2.31568 0.13    0.42    1   0.33    0   9692945 148 171 0   TF-05-06    826.074
2449485.786 310562.695  2.34192 0.15    0.43    1   0.4 0   9525811 145 153 0   TF-05-06    826.074
2449485.786 310562.695  2.37144 0.16    0.44    1   0.48    0   9358673 143 133 0   TF-05-06    826.074
2449485.786 310562.695  2.38456 0.16    0.36    1   0.37    0   10695636    163 161 0   TF-05-06    826.074
2449485.786 310562.695  2.4108  0.09    0.49    1   0.49    0   8523087 130 130 0   TF-05-06    826.074
2449485.786 310562.695  2.45672 0.19    0.42    1   0.39    0   9692930 148 156 0   TF-05-06    826.074
2449485.786 310562.695  2.48624 0.16    0.43    1   0.34    0   9525826 145 168 0   TF-05-06    826.074
2449485.786 310562.695  2.53872 0.13    0.43    1   0.43    0   9525803 145 145 0   TF-05-06    826.074
2449485.786 310562.695  2.5584  0.17    0.39    1   0.36    0   10194288    156 163 0   TF-05-06    826.074
2449485.786 310562.695  2.56168 0.17    0.42    1   0.35    0   9692940 148 166 0   TF-05-06    826.074
2449485.786 310562.695  2.56496 0.19    0.45    1   0.38    0   9191582 140 158 0   TF-05-06    826.074
2449485.786 310562.695  2.56824 0.15    0.55    1   0.37    0   7520417 115 161 0   TF-05-06    826.074
2449485.786 310562.695  2.59448 0.25    0.31    1   0.3 0   11531238    176 178 0   TF-05-06    826.074
2449485.786 310562.695  2.6568  0.15    0.47    1   0.35    0   8857356 135 166 0   TF-05-06    826.074
2449485.786 310562.695  2.71912 0.17    0.42    1   0.38    0   9692932 148 158 0   TF-05-06    826.074
2449485.786 310562.695  2.7552  0.16    0.48    1   0.38    0   8690232 133 158 0   TF-05-06    826.074
2449485.786 310562.695  2.8208  0.16    0.4 1   0.39    0   10027164    153 156 0   TF-05-06    826.074
2449485.786 310562.695  2.9192  0.19    0.44    1   0.37    0   9358701 143 161 0   TF-05-06    826.074
2449485.786 310562.695  2.9848  0.18    0.36    1   0.37    0   10695636    163 161 0   TF-05-06    826.074
2449485.786 310562.695  3.0176  0.13    0.41    1   0.37    0   9860052 150 161 0   TF-05-06    826.074
2449485.786 310562.695  3.02088 0.19    0.43    1   0.28    0   9525841 145 184 0   TF-05-06    826.074
2449485.786 310562.695  3.02416 0.15    0.6 1   0.49    0   6684802 102 130 0   TF-05-06    826.074
2449485.786 310562.695  3.0668  0.16    0.48    1   0.41    0   8690224 133 150 0   TF-05-06    826.074
2449485.786 310562.695  3.15536 0.16    0.43    1   0.37    0   9525818 145 161 0   TF-05-06    826.074
2449485.786 310562.695  3.22752 0.21    0.43    1   0.37    0   9525818 145 161 0   TF-05-06    826.074
2449485.786 310562.695  3.34232 0.19    0.48    1   0.44    0   8690216 133 143 0   TF-05-06    826.074
2449485.786 310562.695  3.45712 0.18    0.4 1   0.36    0   10027171    153 163 0   TF-05-06    826.074
2449485.786 310562.695  3.53584 0.18    0.45    1   0.29    0   9191605 140 181 0   TF-05-06    826.074
2449485.786 310562.695  3.61784 0.24    0.43    1   0.38    0   9525816 145 158 0   TF-05-06    826.074
2449485.786 310562.695  3.67032 0.21    0.5 1   0.32    0   8356013 128 173 0   TF-05-06    826.074
2449485.786 310562.695  3.76544 0.22    0.49    1   0.34    0   8523125 130 168 0   TF-05-06    826.074
2449485.786 310562.695  3.87368 0.18    0.49    1   0.42    0   8523105 130 148 0   TF-05-06    826.074
2449485.786 310562.695  3.94584 0.15    0.4 1   0.38    0   10027166    153 158 0   TF-05-06    826.074
2449485.786 310562.695  4.05736 0.19    0.36    1   0.29    0   10695656    163 181 0   TF-05-06    826.074
2449485.786 310562.695  4.16888 0.15    0.39    1   0.31    0   10194301    156 176 0   TF-05-06    826.074
2449485.786 310562.695  4.24432 0.15    0.45    1   0.35    0   9191590 140 166 0   TF-05-06    826.074
2449485.786 310562.695  4.35584 0.16    0.37    1   0.35    0   10528524    161 166 0   TF-05-06    826.074
2449485.786 310562.695  4.4608  0.18    0.35    1   0.31    0   10862768    166 176 0   TF-05-06    826.074
2449485.786 310562.695  4.53296 0.32    0.49    1   0.4 0   8523110 130 153 0   TF-05-06    826.074
2449485.786 310562.695  4.64448 0.43    0.56    1   0.33    0   7353310 112 171 0   TF-05-06    826.074
2449485.786 310562.695  4.71664 0.39    0.56    1   0.31    0   7353315 112 176 0   TF-05-06    826.074
2449485.786 310562.695  4.8216  0.43    0.46    1   0.22    0   9024506 138 199 0   TF-05-06    826.074
2449485.786 310562.695  4.92984 0.43    0.58    1   0.22    0   7019104 107 199 0   TF-05-06    826.074
2449485.786 310562.695  4.99872 0.39    0.5 1   0.24    0   8356034 128 194 0   TF-05-06    826.074
2449485.786 310562.695  5.1004  0.26    0.45    1   0.34    0   9191592 140 168 0   TF-05-06    826.074
2449485.786 310562.695  5.16928 0.28    0.43    1   0.3 0   9525836 145 178 0   TF-05-06    826.074
2449485.786 310562.695  5.22176 0.23    0.41    1   0.23    0   9860088 150 196 0   TF-05-06    826.074
2449485.786 310562.695  5.25784 0.19    0.43    1   0.28    0   9525841 145 184 0   TF-05-06    826.074
2449537.201 310623.423  0   0.38    0   0.64    0.35    1   8367673 128 83  46  TF-05-07    825.374
2449537.201 310623.423  0.00328 -0.06   0.83    1   0.73    0   2841054 43  69  0   TF-05-07    825.374
2449537.201 310623.423  0.01968 -0.13   0.65    1   0.59    0   5849193 89  105 0   TF-05-07    825.374
2449537.201 310623.423  0.07216 -0.09   0.75    1   0.67    0   4178004 64  84  0   TF-05-07    825.374
2449537.201 310623.423  0.12792 -0.06   0.58    1   0.52    0   7019028 107 122 0   TF-05-07    825.374
2449537.201 310623.423  0.13776 -0.11   0.78    1   0.6 0   3676672 56  102 0   TF-05-07    825.374
2449537.201 310623.423  0.1968  -0.12   0.75    1   0.75    0   4177984 64  64  0   TF-05-07    825.374
2449537.201 310623.423  0.23288 0.1 0.56    1   0.35    0   7353305 112 166 0   TF-05-07    825.374
2449537.201 310623.423  0.28864 2.49    0.76    1   0.66    0.62    2767645 42  60  0   TF-05-07    825.374
2449537.201 310623.423  0.34112 2.16    0.74    1   0.44    0.32    3649820 56  120 0   TF-05-07    825.374
2449537.201 310623.423  0.40672 0.93    0.44    1   0.68    0.32    7861112 120 69  0   TF-05-07    825.374
2449537.201 310623.423  0.49528 0.44    0.35    1   0.84    0.07    10482523    160 39  0   TF-05-07    825.374
2449537.201 310623.423  0.56088 0.42    0.42    1   0.73    0.12    9111535 139 65  0   TF-05-07    825.374
2449537.201 310623.423  0.66584 0.37    0.46    1   0.66    0   9024394 138 87  0   TF-05-07    825.374
2449537.201 310623.423  0.7708  0.6 0.43    1   0.41    0   9525808 145 150 0   TF-05-07    825.374
2449537.201 310623.423  0.8364  0.24    0.54    1   0.47    0   7687508 117 135 0   TF-05-07    825.374
2449537.201 310623.423  0.93152 0.14    0.46    1   0.41    0   9024458 138 150 0   TF-05-07    825.374
2449537.201 310623.423  0.98072 0.11    0.63    1   0.48    0   6183454 94  133 0   TF-05-07    825.374
2449537.201 310623.423  1.05288 0.05    0.7 1   0.5 0   5013632 76  128 0   TF-05-07    825.374
2449537.201 310623.423  1.1316  0.1 0.58    1   0.53    0   7019025 107 120 0   TF-05-07    825.374
2449537.201 310623.423  1.18736 0.12    0.61    1   0.42    0   6517703 99  148 0   TF-05-07    825.374
2449537.201 310623.423  1.28904 0.05    0.54    1   0.48    0   7687505 117 133 0   TF-05-07    825.374
2449537.201 310623.423  1.39728 0.14    0.62    1   0.44    0   6350581 97  143 0   TF-05-07    825.374
2449537.201 310623.423  1.46616 0.29    0.65    1   0.38    0   5849246 89  158 0   TF-05-07    825.374
2449537.201 310623.423  1.5744  0.37    0.64    1   0.34    0   6016373 92  168 0   TF-05-07    825.374
2449537.201 310623.423  1.68592 0.28    0.66    1   0.34    0   5682140 87  168 0   TF-05-07    825.374
2449537.201 310623.423  1.76136 0.35    0.61    1   0.31    0   6517731 99  176 0   TF-05-07    825.374
2449537.201 310623.423  1.8696  0.2 0.62    1   0.36    0   6350602 97  163 0   TF-05-07    825.374
2449537.201 310623.423  1.94504 0.31    0.55    1   0.37    0   7520417 115 161 0   TF-05-07    825.374
2449537.201 310623.423  2.05656 0.31    0.58    1   0.33    0   7019076 107 171 0   TF-05-07    825.374
2449537.201 310623.423  2.1648  1.22    0.48    1   0.42    0.04    8516548 130 145 0   TF-05-07    825.374
2449537.201 310623.423  2.24024 1.9 0.64    1   0.51    0.08    5775808 88  120 0   TF-05-07    825.374
2449537.201 310623.423  2.35176 4.7 0.45    1   0.36    0.05    8961552 137 159 0   TF-05-07    825.374
2449537.201 310623.423  2.46656 6.26    0.43    1   0.32    0.05    9287931 142 169 0   TF-05-07    825.374
2449537.201 310623.423  2.53872 8.1 0.4 1   0.32    0.05    9776174 149 169 0   TF-05-07    825.374
2449537.201 310623.423  2.542   6.37    0.41    1   0.3 0.04    9662803 147 175 0   TF-05-07    825.374
2449537.201 310623.423  2.54528 6.42    0.39    1   0.31    0.05    9939361 152 172 0   TF-05-07    825.374
2449537.201 310623.423  2.58136 5.61    0.4 1   0.3 0.04    9826643 150 175 0   TF-05-07    825.374
2449537.201 310623.423  2.62728 7   0.43    1   0.31    0.06    9240091 141 171 0   TF-05-07    825.374
2449537.201 310623.423  2.706   12.78   0.41    1   0.32    0.06    9564492 146 168 0   TF-05-07    825.374
2449537.201 310623.423  2.75848 15.18   0.45    1   0.33    0.07    8869807 135 165 0   TF-05-07    825.374
2449537.201 310623.423  2.83392 13.73   0.4 1   0.31    0.08    9626097 147 169 0   TF-05-07    825.374
2449537.201 310623.423  2.92576 12.72   0.41    1   0.3 0.07    9514689 145 172 0   TF-05-07    825.374
2449537.201 310623.423  3.04384 13.69   0.41    1   0.3 0.06    9564497 146 173 0   TF-05-07    825.374
2449537.201 310623.423  3.13568 22.5    0.42    1   0.3 0.06    9401968 143 173 0   TF-05-07    825.374
```

```
2449537.201 310623.423  3.19472 22.65   0.41    1   0.3 0.08    9465536 144 171 0   TF-05-07    825.374
2449537.201 310623.423  3.23408 20.65   0.42    1   0.29    0.06    9401970 143 176 0   TF-05-07    825.374
2449537.201 310623.423  3.2964  28.56   0.42    1   0.29    0.07    9353473 143 175 0   TF-05-07    825.374
2449537.201 310623.423  3.38168 23.64   0.43    1   0.29    0.07    9192254 140 175 0   TF-05-07    825.374
2449537.201 310623.423  3.44072 21.04   0.42    1   0.29    0.06    9401970 143 176 0   TF-05-07    825.374
2449537.201 310623.423  3.53256 18.56   0.43    1   0.29    0.08    9145067 140 174 0   TF-05-07    825.374
2449537.201 310623.423  3.62112 17.81   0.42    1   0.28    0.06    9401973 143 178 0   TF-05-07    825.374
2449537.201 310623.423  3.68016 17.11   0.44    1   0.28    0.07    9031038 138 177 0   TF-05-07    825.374
2449537.201 310623.423  3.772   19.36   0.43    1   0.29    0.07    9192254 140 175 0   TF-05-07    825.374
2449537.201 310623.423  3.86384 23.6    0.43    1   0.3 0.08    9145065 140 171 0   TF-05-07    825.374
2449537.201 310623.423  3.92288 21.05   0.43    1   0.29    0.07    9192254 140 175 0   TF-05-07    825.374
2449537.201 310623.423  4.01472 17.84   0.43    1   0.3 0.05    9287936 142 174 0   TF-05-07    825.374
2449537.201 310623.423  4.07704 16.3    0.44    1   0.29    0.09    8937317 136 173 0   TF-05-07    825.374
2449537.201 310623.423  4.1656  20.34   0.43    1   0.29    0.06    9240096 141 176 0   TF-05-07    825.374
2449537.201 310623.423  4.25744 21.68   0.45    1   0.29    0.07    8869817 135 175 0   TF-05-07    825.374
2449537.201 310623.423  4.31976 24.35   0.43    1   0.3 0.07    9192252 140 172 0   TF-05-07    825.374
2449537.201 310623.423  4.40832 20.71   0.45    1   0.3 0.06    8915691 136 173 0   TF-05-07    825.374
2449537.201 310623.423  4.47064 20.83   0.44    1   0.28    0.07    9031038 138 177 0   TF-05-07    825.374
2449537.201 310623.423  4.56248 22.22   0.44    1   0.29    0.05    9124754 139 177 0   TF-05-07    825.374
2449537.201 310623.423  4.6576  24.89   0.44    1   0.29    0.06    9078222 139 176 0   TF-05-07    825.374
2449537.201 310623.423  4.71664 23.2    0.44    1   0.29    0.06    9078222 139 176 0   TF-05-07    825.374
2449537.201 310623.423  4.8052  15.47   0.45    1   0.28    0.07    8869819 135 177 0   TF-05-07    825.374
2449537.201 310623.423  4.90032 11.72   0.46    1   0.28    0.07    8708601 133 177 0   TF-05-07    825.374
2449537.201 310623.423  4.96264 11.7    0.47    1   0.27    0.06    8591950 131 181 0   TF-05-07    825.374
2449537.201 310623.423  5.05448 15.58   0.45    1   0.28    0.07    8869819 135 177 0   TF-05-07    825.374
2449537.201 310623.423  5.12008 15.41   0.45    1   0.28    0.07    8869819 135 177 0   TF-05-07    825.374
2449537.201 310623.423  5.21192 17.37   0.45    1   0.27    0.06    8915698 136 181 0   TF-05-07    825.374
2449537.201 310623.423  5.30376 12.15   0.45    1   0.27    0.05    8961574 137 182 0   TF-05-07    825.374
2449537.201 310623.423  5.36936 7.19    0.45    1   0.29    0.07    8869817 135 175 0   TF-05-07    825.374
2449537.201 310623.423  5.4612  5.6 0.45    1   0.28    0.06    8915696 136 178 0   TF-05-07    825.374
2449537.201 310623.423  5.55632 5.56    0.47    1   0.3 0.06    8591943 131 173 0   TF-05-07    825.374
2449537.201 310623.423  5.61864 5.91    0.45    1   0.3 0.07    8869814 135 172 0   TF-05-07    825.374
2449537.201 310623.423  5.66128 5.36    0.44    1   0.3 0.08    8984502 137 171 0   TF-05-07    825.374
2449537.201 310623.423  5.68096 5.42    0.46    1   0.3 0.07    8708596 133 172 0   TF-05-07    825.374
2449537.201 310623.423  5.7236  6.32    0.45    1   0.29    0.05    8961569 137 177 0   TF-05-07    825.374
2449537.201 310623.423  5.7892  6.86    0.47    1   0.29    0.07    8547380 130 175 0   TF-05-07    825.374
2449537.201 310623.423  5.84168 4.02    0.43    1   0.3 0.04    9335123 142 175 0   TF-05-07    825.374
2449537.201 310623.423  5.92696 2.93    0.44    1   0.31    0.04    9171280 140 172 0   TF-05-07    825.374
2449537.201 310623.423  5.986   4   0.51    1   0.31    0.04    8025056 122 172 0   TF-05-07    825.374
2449537.201 310623.423  6.07456 3.84    0.45    1   0.3 0.05    8961567 137 174 0   TF-05-07    825.374
2449537.201 310623.423  6.16312 2.71    0.43    1   0.25    0.04    9335135 142 187 0   TF-05-07    825.374
2449537.201 310623.423  6.22544 2.67    0.44    1   0.26    0.02    9265011 141 187 0   TF-05-07    825.374
2449537.201 310623.423  6.314   3.42    0.47    1   0.27    0.04    8680426 132 182 0   TF-05-07    825.374
2449537.201 310623.423  6.40256 5.47    0.47    1   0.29    0.06    8591945 131 176 0   TF-05-07    825.374
2449537.201 310623.423  6.46488 4.33    0.47    1   0.27    0.04    8680426 132 182 0   TF-05-07    825.374
2449537.201 310623.423  6.55672 2.63    0.47    1   0.29    0.03    8724331 133 178 0   TF-05-07    825.374
2449537.201 310623.423  6.61576 1.33    0.43    1   0.25    0   9525849 145 191 0   TF-05-07    825.374
2449537.201 310623.423  6.7076  0.79    0.48    1   0.31    0   8690250 133 176 0   TF-05-07    825.374
2449537.201 310623.423  6.79616 0.45    0.53    1   0.35    0   7854655 120 166 0   TF-05-07    825.374
2449537.201 310623.423  6.88144 0.42    0.54    1   0.4 0   7687526 117 153 0   TF-05-07    825.374
2449537.201 310623.423  6.9372  0.27    0.62    1   0.5 0   6350566 97  128 0   TF-05-07    825.374
2449537.201 310623.423  7.02576 0.45    0.57    1   0.37    0   7186183 110 161 0   TF-05-07    825.374
2449537.201 310623.423  7.04872 1.06    0.5 1   0.37    0   8356001 128 161 0   TF-05-07    825.374
2449537.201 310623.423  7.09136 1.16    0.56    1   0.33    0   7353310 112 171 0   TF-05-07    825.374
2449537.201 310623.423  7.17992 2.63    0.72    1   0.52    0.05    4562736 70  119 0   TF-05-07    825.374
2449537.201 310623.423  7.27176 7.67    0.47    1   0.25    0.04    8680431 132 187 0   TF-05-07    825.374
2449537.201 310623.423  7.33408 7.89    0.49    1   0.26    0.06    8267549 126 183 0   TF-05-07    825.374
2449537.201 310623.423  7.42592 10.55   0.48    1   0.27    0.05    8472676 129 182 0   TF-05-07    825.374
2449537.201 310623.423  7.48824 5.57    0.46    1   0.28    0.05    8799042 134 179 0   TF-05-07    825.374
2449537.201 310623.423  7.58336 2.66    0.47    1   0.26    0.04    8680428 132 185 0   TF-05-07    825.374
2449537.201 310623.423  7.67848 1.15    0.41    1   0.34    0   9860060 150 168 0   TF-05-07    825.374
2449537.201 310623.423  7.74408 0.28    0.48    1   0.44    0   8690216 133 143 0   TF-05-07    825.374
2449537.201 310623.423  7.8392  0.21    0.63    1   0.45    0   6183462 94  140 0   TF-05-07    825.374
2449537.201 310623.423  7.93432 0.11    0.58    1   0.48    0   7019038 107 133 0   TF-05-07    825.374
2449537.201 310623.423  8.02944 0.15    0.57    1   0.41    0   7186173 110 150 0   TF-05-07    825.374
2449537.201 310623.423  8.09176 0.18    0.57    1   0.42    0   7186170 110 148 0   TF-05-07    825.374
2449537.201 310623.423  8.1836  0.15    0.53    1   0.48    0   7854622 120 133 0   TF-05-07    825.374
2449537.201 310623.423  8.25248 0.09    0.69    1   0.54    0   5180738 79  117 0   TF-05-07    825.374
2449537.201 310623.423  8.3476  0.08    0.58    1   0.48    0   7019038 107 133 0   TF-05-07    825.374
2449537.201 310623.423  8.43944 -0.01   0.65    1   0.58    0   5849195 89  107 0   TF-05-07    825.374
2449537.201 310623.423  8.50504 0.01    0.72    1   0.57    0   4679380 71  110 0   TF-05-07    825.374
2449537.201 310623.423  8.60016 -0.05   0.79    1   0.61    0   3509552 54  99  0   TF-05-07    825.374
2449537.201 310623.423  8.69528 -0.02   0.7 1   0.6 0   5013606 76  102 0   TF-05-07    825.374
2449537.201 310623.423  8.72808 0.04    0.68    1   0.62    0   5347834 82  97  0   TF-05-07    825.374
2449537.201 310623.423  8.85928 -0.03   0.69    1   0.65    0   5180710 79  89  0   TF-05-07    825.374
2449537.201 310623.423  8.87896 -0.06   0.69    1   0.64    0   5180713 79  92  0   TF-05-07    825.374
2449537.201 310623.423  8.89864 -0.02   0.84    1   0.78    0   2673925 41  56  0   TF-05-07    825.374
2449537.201 310623.423  8.92488 -0.04   0.82    1   0.66    0   3008189 46  87  0   TF-05-07    825.374
2449537.201 310623.423  8.9872  -0.03   0.69    1   0.67    0   5180705 79  84  0   TF-05-07    825.374
2449537.201 310623.423  9.07904 0   0.72    1   0.6 0   4679372 71  102 0   TF-05-07    825.374
2449537.201 310623.423  9.14464 -0.01   0.68    1   0.55    0   5347852 82  115 0   TF-05-07    825.374
2449537.201 310623.423  9.23976 -0.01   0.63    1   0.6 0   6183424 94  102 0   TF-05-07    825.374
2449537.201 310623.423  9.33816 -0.05   0.64    1   0.68    0   6016286 92  82  0   TF-05-07    825.374
2449537.201 310623.423  9.40376 -0.07   0.66    1   0.64    0   5682063 87  92  0   TF-05-07    825.374
2449537.201 310623.423  9.50216 -0.05   0.71    1   0.63    0   4846482 74  94  0   TF-05-07    825.374
2449537.201 310623.423  9.60056 0   0.7 1   0.61    0   5013603 76  99  0   TF-05-07    825.374
2449537.201 310623.423  9.66616 -0.03   0.56    1   0.57    0   7353249 112 110 0   TF-05-07    825.374
2449537.201 310623.423  9.76784 -0.04   0.62    1   0.59    0   6350543 97  105 0   TF-05-07    825.374
2449537.201 310623.423  9.83344 -0.04   0.73    1   0.64    0   4512245 69  92  0   TF-05-07    825.374
2449537.201 310623.423  9.93512 -0.06   0.68    1   0.61    0   5347837 82  99  0   TF-05-07    825.374
2449537.201 310623.423  10.03352    -0.07   0.77    1   0.59    0   3843791 59  105 0   TF-05-07    825.374
2449537.201 310623.423  10.09912    -0.05   0.65    1   0.59    0   5849193 89  105 0   TF-05-07    825.374
2449537.201 310623.423  10.2008 0.01    0.64    1   0.48    0   6016337 92  133 0   TF-05-07    825.374
2449537.201 310623.423  10.30248    -0.05   0.6 1   0.61    0   6684771 102 99  0   TF-05-07    825.374
2449537.201 310623.423  10.36808    -0.01   0.53    1   0.49    0   7854620 120 130 0   TF-05-07    825.374
2449537.201 310623.423  10.46648    -0.06   0.66    1   0.65    0   5682060 87  89  0   TF-05-07    825.374
2449537.201 310623.423  10.56488    -0.03   0.62    1   0.61    0   6350538 97  99  0   TF-05-07    825.374
2449537.201 310623.423  10.63048    -0.03   0.74    1   0.65    0   4345126 66  89  0   TF-05-07    825.374
2449537.201 310623.423  10.73216    -0.06   0.68    1   0.57    0   5347847 82  110 0   TF-05-07    825.374
2449537.201 310623.423  10.80104    -0.06   0.62    1   0.55    0   6350553 97  115 0   TF-05-07    825.374
2449537.201 310623.423  10.89944    -0.06   0.68    1   0.68    0   5347819 82  82  0   TF-05-07    825.374
2449537.201 310623.423  10.99456    -0.01   0.8 1   0.65    0   3342425 51  89  0   TF-05-07    825.374
```

```
2449537.201 310623.423  11.06344    -0.07   0.78    1   0.54    0   3676687 56  117 0   TF-05-07    825.374
2449537.201 310623.423  11.16184    -0.01   0.75    1   0.61    0   4178019 64  99  0   TF-05-07    825.374
2449537.201 310623.423  11.26024    0.01    0.55    1   0.45    0   7520396 115 140 0   TF-05-07    825.374
2449537.201 310623.423  11.3324 -0.08   0.64    1   0.53    0   6016325 92  120 0   TF-05-07    825.374
2449537.201 310623.423  11.4308 -0.05   0.7 1   0.65    0   5013593 76  89  0   TF-05-07    825.374
2449537.201 310623.423  11.4964 -0.04   0.78    1   0.72    0   3676641 56  71  0   TF-05-07    825.374
2449537.201 310623.423  11.59808    -0.07   0.8 1   0.58    0   3342443 51  107 0   TF-05-07    825.374
2449537.201 310623.423  11.69648    -0.02   0.62    1   0.51    0   6350563 97  125 0   TF-05-07    825.374
2449537.201 310623.423  11.73584    -0.03   0.5 1   0.54    0   8355957 128 117 0   TF-05-07    825.374
2449537.201 310623.423  11.89   -0.09   0.7 1   0.57    0   5013614 76  110 0   TF-05-07    825.374
2449537.201 310623.423  12.0868 -0.07   0.68    1   0.5 0   5347865 82  128 0   TF-05-07    825.374
2449537.201 310623.423  12.12288    -0.03   0.57    1   0.46    0   7186160 110 138 0   TF-05-07    825.374
2449537.201 310623.423  12.12616    -0.04   0.66    1   0.56    0   5682083 87  112 0   TF-05-07    825.374
2449537.201 310623.423  12.14912    -0.08   0.72    1   0.58    0   4679378 71  107 0   TF-05-07    825.374
2449537.201 310623.423  12.18192    -0.09   0.61    1   0.64    0   6517647 99  92  0   TF-05-07    825.374
2449537.201 310623.423  12.27048    -0.03   0.78    1   0.69    0   3676649 56  79  0   TF-05-07    825.374
2449537.201 310623.423  12.35576    -0.05   0.67    1   0.53    0   5514974 84  120 0   TF-05-07    825.374
2449537.201 310623.423  12.49024    -0.02   0.56    1   0.44    0   7353282 112 143 0   TF-05-07    825.374
2449537.201 310623.423  12.628  0   0.55    1   0.6 0   7520358 115 102 0   TF-05-07    825.374
2449537.201 310623.423  12.6608 -0.02   0.71    1   0.49    0   4846517 74  130 0   TF-05-07    825.374
2449537.201 310623.423  12.71984    -0.04   0.7 1   0.59    0   5013609 76  105 0   TF-05-07    825.374
2449537.201 310623.423  12.81824    0   0.51    1   0.4 0   8188876 125 153 0   TF-05-07    825.374
2449537.201 310623.423  12.88712    -0.01   0.61    1   0.6 0   6517657 99  102 0   TF-05-07    825.374
2449537.201 310623.423  12.98552    -0.01   0.72    1   0.48    0   4679403 71  133 0   TF-05-07    825.374
2449537.201 310623.423  13.05112    0.07    0.56    1   0.47    0   7353274 112 135 0   TF-05-07    825.374
2449537.201 310623.423  13.14952    0.05    0.53    1   0.46    0   7854627 120 138 0   TF-05-07    825.374
2449537.201 310623.423  13.24792    -0.04   0.7 1   0.59    0   5013609 76  105 0   TF-05-07    825.374
2449537.201 310623.423  13.31352    0.02    0.56    1   0.43    0   7353285 112 145 0   TF-05-07    825.374
2449537.201 310623.423  13.40208    -0.02   0.65    1   0.62    0   5849185 89  97  0   TF-05-07    825.374
2449537.201 310623.423  13.4972 -0.04   0.52    1   0.49    0   8021736 122 130 0   TF-05-07    825.374
2449537.201 310623.423  13.55952    0.05    0.61    1   0.43    0   6517701 99  145 0   TF-05-07    825.374
2449537.201 310623.423  13.64808    0.02    0.49    1   0.52    0   8523079 130 122 0   TF-05-07    825.374
2449537.201 310623.423  13.70056    0.02    0.52    1   0.47    0   8021742 122 135 0   TF-05-07    825.374
2449537.201 310623.423  13.75304    0.07    0.51    1   0.51    0   8188848 125 125 0   TF-05-07    825.374
2449537.201 310623.423  13.75632    0.04    0.54    1   0.44    0   7687516 117 143 0   TF-05-07    825.374
2449537.201 310623.423  13.78256    0.05    0.47    1   0.45    0   8857331 135 140 0   TF-05-07    825.374
2449537.201 310623.423  13.83504    0.02    0.64    1   0.51    0   6016330 92  125 0   TF-05-07    825.374
2449537.201 310623.423  13.83832    0.02    0.57    1   0.5 0   7186150 110 128 0   TF-05-07    825.374
2449537.201 310623.423  13.84488    0.02    0.62    1   0.38    0   6350596 97  158 0   TF-05-07    825.374
2449537.201 310623.423  13.90064    0.01    0.53    1   0.52    0   7854612 120 122 0   TF-05-07    825.374
2449537.201 310623.423  13.9072 -0.01   0.71    1   0.59    0   4846492 74  105 0   TF-05-07    825.374
2449537.201 310623.423  13.91376    -0.02   0.72    1   0.54    0   4679388 71  117 0   TF-05-07    825.374
2449537.201 310623.423  13.93672    0   0.67    1   0.63    0   5514949 84  94  0   TF-05-07    825.374
2449537.201 310623.423  13.99248    -0.03   0.52    1   0.49    0   8021736 122 130 0   TF-05-07    825.374
2449537.201 310623.423  14.04824    -0.05   0.72    1   0.53    0   4679390 71  120 0   TF-05-07    825.374
2449537.201 310623.423  14.14008    -0.01   0.52    1   0.37    0   8021767 122 161 0   TF-05-07    825.374
2449537.201 310623.423  14.19912    -0.02   0.65    1   0.36    0   5849251 89  163 0   TF-05-07    825.374
2449537.201 310623.423  14.22536    -0.07   0.69    1   0.56    0   5180733 79  112 0   TF-05-07    825.374
2449537.201 310623.423  14.29096    -0.08   0.71    1   0.66    0   4846474 74  87  0   TF-05-07    825.374
2449537.201 310623.423  14.37952    -0.07   0.69    1   0.52    0   5180743 79  122 0   TF-05-07    825.374
2449537.201 310623.423  14.47136    -0.08   0.58    1   0.48    0   7019038 107 133 0   TF-05-07    825.374
2449537.201 310623.423  14.53368    -0.06   0.6 1   0.62    0   6684769 102 97  0   TF-05-07    825.374
2449537.201 310623.423  14.62224    -0.06   0.48    1   0.56    0   8690186 133 112 0   TF-05-07    825.374
2449537.201 310623.423  14.7108 -0.03   0.73    1   0.54    0   4512271 69  117 0   TF-05-07    825.374
2449537.201 310623.423  14.77312    -0.09   0.57    1   0.59    0   7186127 110 105 0   TF-05-07    825.374
2449537.201 310623.423  14.8584 -0.1    0.63    1   0.56    0   6183434 94  112 0   TF-05-07    825.374
2449537.201 310623.423  14.94696    -0.06   0.56    1   0.65    0   7353228 112 89  0   TF-05-07    825.374
2449537.201 310623.423  15.006  -0.06   0.56    1   0.62    0   7353236 112 97  0   TF-05-07    825.374
2449537.201 310623.423  15.09784    -0.08   0.72    1   0.69    0   4679349 71  79  0   TF-05-07    825.374
2449537.201 310623.423  15.18968    -0.09   0.67    1   0.6 0   5514956 84  102 0   TF-05-07    825.374
2449537.201 310623.423  15.252  -0.09   0.65    1   0.76    0   5849149 89  61  0   TF-05-07    825.374
2449537.201 310623.423  15.34384    -0.06   0.56    1   0.56    0   7353251 112 112 0   TF-05-07    825.374
2449537.201 310623.423  15.3832 0.62    0.54    1   0.37    0   7687533 117 161 0   TF-05-07    825.374
2449537.201 310623.423  15.3996 0.72    0.51    1   0.28    0   8188907 125 184 0   TF-05-07    825.374
2449537.201 310623.423  15.40288    0.66    0.46    1   0.38    0   9024465 138 158 0   TF-05-07    825.374
2449537.201 310623.423  15.44224    0.93    0.52    1   0.34    0   8021775 122 168 0   TF-05-07    825.374
2449537.201 310623.423  15.498  0.77    0.56    1   0.39    0   7353295 112 156 0   TF-05-07    825.374
2449537.201 310623.423  15.59312    -0.08   0.72    1   0.74    0   4679337 71  66  0   TF-05-07    825.374
2449537.201 310623.423  15.6784 -0.07   0.65    1   0.71    0   5849162 89  74  0   TF-05-07    825.374
2449537.201 310623.423  15.74072    -0.06   0.7 1   0.74    0   5013570 76  66  0   TF-05-07    825.374
2449537.201 310623.423  15.83584    -0.03   0.69    1   0.82    0   5180667 79  46  0   TF-05-07    825.374
2449537.201 310623.423  15.89816    -0.06   0.75    1   0.75    0   4177984 64  64  0   TF-05-07    825.374
2449537.201 310623.423  15.98672    -0.08   0.82    1   0.78    0   3008158 46  56  0   TF-05-07    825.374
2449537.201 310623.423  16.08184    -0.06   0.73    1   0.83    0   4512197 69  43  0   TF-05-07    825.374
2449537.201 310623.423  16.14088    -0.05   0.77    1   0.63    0   3843781 59  94  0   TF-05-07    825.374
2449537.201 310623.423  16.22944    -0.09   0.68    1   0.79    0   5347791 82  54  0   TF-05-07    825.374
2449537.201 310623.423  16.31472    -0.06   0.63    1   0.53    0   6183441 94  120 0   TF-05-07    825.374
2449537.201 310623.423  16.36064    -0.02   0.52    1   0.67    0   8021691 122 84  0   TF-05-07    825.374
2449539.842 310560.41   0   0.32    0   0.49    0.66    1   8372531 128 43  65  TF-05-08    824.842
2449539.842 310560.41   0.0492  -0.11   0.65    1   0.48    0   5849221 89  133 0   TF-05-08    824.842
2449539.842 310560.41   0.07872 -0.12   0.55    1   0.56    0   7520368 115 112 0   TF-05-08    824.842
2449539.842 310560.41   0.11808 -0.13   0.68    1   0.52    0   5347860 82  122 0   TF-05-08    824.842
2449539.842 310560.41   0.17056 0.11    0.58    1   0.43    0   7019051 107 145 0   TF-05-08    824.842
2449539.842 310560.41   0.20336 0.91    0.63    1   0.22    0   6183520 94  199 0   TF-05-08    824.842
2449539.842 310560.41   0.25584 0.93    0.5 1   0.3 0   8356018 128 178 0   TF-05-08    824.842
2449539.842 310560.41   0.30832 0.76    0.45    1   0.36    0   9191587 140 163 0   TF-05-08    824.842
2449539.842 310560.41   0.3444  0.73    0.38    1   0.51    0   10361367    158 125 0   TF-05-08    824.842
2449539.842 310560.41   0.40672 0.68    0.37    1   0.54    0   10528476    161 117 0   TF-05-08    824.842
2449539.842 310560.41   0.46576 0.27    0.47    1   0.7 0   8857267 135 76  0   TF-05-08    824.842
2449539.842 310560.41   0.5084  0.23    0.42    1   0.67    0   9692859 148 84  0   TF-05-08    824.842
2449539.842 310560.41   0.574   0.13    0.64    1   0.56    0   6016317 92  112 0   TF-05-08    824.842
2449539.842 310560.41   0.61336 0.07    0.67    1   0.55    0   5514969 84  115 0   TF-05-08    824.842
2449539.842 310560.41   0.66912 0   0.56    1   0.52    0   7353262 112 122 0   TF-05-08    824.842
2449539.842 310560.41   0.71832 0.07    0.49    1   0.55    0   8523072 130 115 0   TF-05-08    824.842
2449539.842 310560.41   0.75112 -0.04   0.62    1   0.62    0   6350535 97  97  0   TF-05-08    824.842
2449539.842 310560.41   0.80032 0.06    0.58    1   0.46    0   7019043 107 138 0   TF-05-08    824.842
2449539.842 310560.41   0.86264 0.05    0.57    1   0.53    0   7186142 110 120 0   TF-05-08    824.842
2449539.842 310560.41   0.92496 -0.03   0.61    1   0.54    0   6517672 99  117 0   TF-05-08    824.842
2449539.842 310560.41   1.0168  -0.1    0.67    1   0.57    0   5514964 84  110 0   TF-05-08    824.842
2449539.842 310560.41   1.07912 0.01    0.57    1   0.52    0   7186145 110 122 0   TF-05-08    824.842
2449539.842 310560.41   1.17096 0.05    0.62    1   0.5 0   6350566 97  128 0   TF-05-08    824.842
2449539.842 310560.41   1.25952 0.03    0.63    1   0.48    0   6183454 94  133 0   TF-05-08    824.842
```

```
2449539.842 310560.41   1.31856 0.21    0.51    1   0.41    0   8188874 125 150 0   TF-05-08    824.842
2449539.842 310560.41   1.40712 0.6 0.45    1   0.53    0   9191544 140 120 0   TF-05-08    824.842
2449539.842 310560.41   1.50224 0.87    0.41    1   0.42    0   9860039 150 148 0   TF-05-08    824.842
2449539.842 310560.41   1.558   1.29    0.5 1   0.47    0   8355975 128 135 0   TF-05-08    824.842
2449539.842 310560.41   1.64984 3.94    0.41    1   0.39    0.07    9514667 145 150 0   TF-05-08    824.842
2449539.842 310560.41   1.74168 4.6 0.42    1   0.39    0.07    9353448 143 150 0   TF-05-08    824.842
2449539.842 310560.41   1.79744 5.08    0.42    1   0.38    0.07    9353450 143 153 0   TF-05-08    824.842
2449539.842 310560.41   1.886   5.32    0.42    1   0.35    0.05    9450453 144 162 0   TF-05-08    824.842
2449539.842 310560.41   1.97784 7.34    0.42    1   0.34    0.06    9401958 143 163 0   TF-05-08    824.842
2449539.842 310560.41   2.04016 10.19   0.42    1   0.32    0.06    9401963 143 168 0   TF-05-08    824.842
2449539.842 310560.41   2.12872 14.18   0.43    1   0.34    0.06    9240084 141 163 0   TF-05-08    824.842
2449539.842 310560.41   2.19104 14.92   0.41    1   0.34    0.1 9367220 143 160 0   TF-05-08    824.842
2449539.842 310560.41   2.28288 15.23   0.42    1   0.3 0.06    9401968 143 173 0   TF-05-08    824.842
2449539.842 310560.41   2.37472 16.45   0.42    1   0.29    0.07    9353473 143 175 0   TF-05-08    824.842
2449539.842 310560.41   2.46328 11.62   0.43    1   0.27    0.05    9287943 142 182 0   TF-05-08    824.842
2449539.842 310560.41   2.47968 10.86   0.43    1   0.27    0.09    9097230 139 178 0   TF-05-08    824.842
2449539.842 310560.41   2.55512 10.88   0.43    1   0.25    0.05    9287948 142 186 0   TF-05-08    824.842
2449539.842 310560.41   2.61416 9.63    0.44    1   0.24    0.05    9124766 139 189 0   TF-05-08    824.842
2449539.842 310560.41   2.70272 11.93   0.49    1   0.25    0.05    8310151 127 186 0   TF-05-08    824.842
2449539.842 310560.41   2.79456 14.12   0.49    1   0.22    0.05    8310159 127 194 0   TF-05-08    824.842
2449539.842 310560.41   2.85688 11.4    0.47    1   0.23    0.05    8635870 132 191 0   TF-05-08    824.842
2449539.842 310560.41   2.94872 7.1 0.46    1   0.22    0.04    8844278 135 195 0   TF-05-08    824.842
2449539.842 310560.41   3.04384 9.6 0.48    1   0.2 0.05    8472693 129 199 0   TF-05-08    824.842
2449539.842 310560.41   3.11272 10.9    0.47    1   0.21    0.05    8635875 132 196 0   TF-05-08    824.842
2449539.842 310560.41   3.20784 11  0.46    1   0.21    0.05    8799060 134 196 0   TF-05-08    824.842
2449539.842 310560.41   3.27016 7.74    0.47    1   0.21    0.04    8680441 132 197 0   TF-05-08    824.842
2449539.842 310560.41   3.36528 5.76    0.48    1   0.2 0.03    8559858 131 201 0   TF-05-08    824.842
2449539.842 310560.41   3.4604  4.98    0.48    1   0.21    0.03    8559855 131 198 0   TF-05-08    824.842
2449539.842 310560.41   3.526   4.8 0.51    1   0.19    0.03    8066374 123 203 0   TF-05-08    824.842
2449539.842 310560.41   3.62112 3.97    0.51    1   0.21    0.02    8107003 124 199 0   TF-05-08    824.842
2449539.842 310560.41   3.68672 3.53    0.46    1   0.2 0.02    8934069 136 202 0   TF-05-08    824.842
2449539.842 310560.41   3.78184 4.23    0.52    1   0.19    0.03    7901224 121 203 0   TF-05-08    824.842
2449539.842 310560.41   3.88024 12.12   0.65    1   0.23    0.06    5673642 87  190 0   TF-05-08    824.842
2449539.842 310560.41   3.94584 2.68    0.51    1   0.2 0.03    8066372 123 201 0   TF-05-08    824.842
2449539.842 310560.41   4.04424 0.28    0.39    1   0.33    0   10194296    156 171 0   TF-05-08    824.842
2449539.842 310560.41   4.14264 1.07    0.44    1   0.24    0   9358735 143 194 0   TF-05-08    824.842
2449539.842 310560.41   4.21152 0.9 0.46    1   0.24    0   9024501 138 194 0   TF-05-08    824.842
2449539.842 310560.41   4.30664 3.65    0.48    1   0.22    0.02    8603108 131 197 0   TF-05-08    824.842
2449539.842 310560.41   4.40504 0.48    0.5 1   0.3 0   8356018 128 178 0   TF-05-08    824.842
2449539.842 310560.41   4.46736 0.31    0.51    1   0.36    0   8188886 125 163 0   TF-05-08    824.842
2449539.842 310560.41   4.56576 1.6 0.65    1   0.32    0   5849261 89  173 0   TF-05-08    824.842
2449539.842 310560.41   4.66416 3.98    0.49    1   0.25    0.03    8395350 128 188 0   TF-05-08    824.842
2449539.842 310560.41   4.73304 1.7 0.5 1   0.25    0.01    8314087 127 190 0   TF-05-08    824.842
2449539.842 310560.41   4.83144 2.64    0.54    1   0.24    0   7687567 117 194 0   TF-05-08    824.842
2449539.842 310560.41   4.93312 1.4 0.41    1   0.35    0   9860057 150 166 0   TF-05-08    824.842
2449539.842 310560.41   5.0348  2.27    0.52    1   0.2 0   8021810 122 204 0   TF-05-08    824.842
2449539.842 310560.41   5.1004  3.53    0.51    1   0.2 0.01    8148294 124 203 0   TF-05-08    824.842
2449539.842 310560.41   5.20208 1.96    0.52    1   0.24    0   8021800 122 194 0   TF-05-08    824.842
2449539.842 310560.41   5.27096 1.98    0.53    1   0.25    0   7854681 120 191 0   TF-05-08    824.842
2449539.842 310560.41   5.36936 2.02    0.52    1   0.27    0.02    7941837 121 184 0   TF-05-08    824.842
2449539.842 310560.41   5.47104 2.36    0.5 1   0.25    0.01    8314087 127 190 0   TF-05-08    824.842
2449539.842 310560.41   5.53992 5.07    0.54    1   0.22    0.03    7572225 116 196 0   TF-05-08    824.842
2449539.842 310560.41   5.63176 6.94    0.61    1   0.24    0.05    6354560 97  189 0   TF-05-08    824.842
2449539.842 310560.41   5.6744  4.33    0.52    1   0.21    0.02    7941852 121 199 0   TF-05-08    824.842
2449539.842 310560.41   5.77608 5.36    0.52    1   0.21    0.04    7861241 120 197 0   TF-05-08    824.842
2449539.842 310560.41   5.88104 1.2 0.5 1   0.22    0   8356039 128 199 0   TF-05-08    824.842
2449539.842 310560.41   5.9532  1.39    0.52    1   0.3 0   8021785 122 178 0   TF-05-08    824.842
2449539.842 310560.41   6.06144 1.45    0.45    1   0.28    0   9191608 140 184 0   TF-05-08    824.842
2449539.842 310560.41   6.1664  1.91    0.48    1   0.23    0   8690270 133 196 0   TF-05-08    824.842
2449539.842 310560.41   6.23528 4.28    0.52    1   0.21    0.02    7941852 121 199 0   TF-05-08    824.842
2449539.842 310560.41   6.34352 2.35    0.48    1   0.21    0   8690275 133 201 0   TF-05-08    824.842
2449539.842 310560.41   6.41568 0.4 0.49    1   0.3 0   8523135 130 178 0   TF-05-08    824.842
2449539.842 310560.41   6.52064 0.25    0.56    1   0.38    0   7353297 112 158 0   TF-05-08    824.842
2449539.842 310560.41   6.62888 1.5 0.65    1   0.29    0   5849269 89  181 0   TF-05-08    824.842
2449539.842 310560.41   6.73384 0.35    0.43    1   0.31    0   9525834 145 176 0   TF-05-08    824.842
2449539.842 310560.41   6.81256 0.47    0.53    1   0.3 0   7854668 120 178 0   TF-05-08    824.842
2449539.842 310560.41   6.91752 -0.05   0.6 1   0.59    0   6684777 102 105 0   TF-05-08    824.842
2449539.842 310560.41   7.02576 0.04    0.6 1   0.53    0   6684792 102 120 0   TF-05-08    824.842
2449539.842 310560.41   7.09792 -0.02   0.57    1   0.56    0   7186135 110 112 0   TF-05-08    824.842
2449539.842 310560.41   7.20288 -0.12   0.72    1   0.69    0   4679349 71  79  0   TF-05-08    824.842
2449539.842 310560.41   7.31112 -0.03   0.56    1   0.49    0   7353269 112 130 0   TF-05-08    824.842
2449539.842 310560.41   7.38328 0.01    0.61    1   0.47    0   6517690 99  135 0   TF-05-08    824.842
2449539.842 310560.41   7.49152 -0.02   0.6 1   0.5 0   6684800 102 128 0   TF-05-08    824.842
2449539.842 310560.41   7.59976 -0.05   0.66    1   0.54    0   5682088 87  117 0   TF-05-08    824.842
2449539.842 310560.41   7.67192 -0.09   0.58    1   0.56    0   7019018 107 112 0   TF-05-08    824.842
2449539.842 310560.41   7.78016 -0.1    0.63    1   0.59    0   6183426 94  105 0   TF-05-08    824.842
2449539.842 310560.41   7.85232 -0.07   0.53    1   0.57    0   7854599 120 110 0   TF-05-08    824.842
2449539.842 310560.41   7.96384 -0.06   0.53    1   0.5 0   7854617 120 128 0   TF-05-08    824.842
2449539.842 310560.41   8.0688  -0.06   0.56    1   0.66    0   7353226 112 87  0   TF-05-08    824.842
2449539.842 310560.41   8.14424 -0.02   0.52    1   0.45    0   8021747 122 140 0   TF-05-08    824.842
2449539.842 310560.41   8.25248 -0.01   0.62    1   0.5 0   6350566 97  128 0   TF-05-08    824.842
2449539.842 310560.41   8.32464 -0.05   0.61    1   0.51    0   6517680 99  125 0   TF-05-08    824.842
2449539.842 310560.41   8.43616 -0.03   0.57    1   0.62    0   7186119 110 97  0   TF-05-08    824.842
2449539.842 310560.41   8.5444  -0.08   0.65    1   0.59    0   5849193 89  105 0   TF-05-08    824.842
2449539.842 310560.41   8.61984 -0.12   0.56    1   0.56    0   7353251 112 112 0   TF-05-08    824.842
2449539.842 310560.41   8.72808 -0.12   0.71    1   0.77    0   4846446 74  59  0   TF-05-08    824.842
2449539.842 310560.41   8.80024 -0.1    0.61    1   0.6 0   6517657 99  102 0   TF-05-08    824.842
2449539.842 310560.41   8.81336 -0.13   0.67    1   0.7 0   5514931 84  76  0   TF-05-08    824.842
2449539.842 310560.41   8.81664 -0.1    0.52    1   0.55    0   8021721 122 115 0   TF-05-08    824.842
2449539.842 310560.41   8.88552 -0.1    0.58    1   0.55    0   7019020 107 115 0   TF-05-08    824.842
2449539.842 310560.41   8.99376 -0.13   0.63    1   0.64    0   6183413 94  92  0   TF-05-08    824.842
2449539.842 310560.41   9.102   -0.12   0.67    1   0.72    0   5514926 84  71  0   TF-05-08    824.842
2449539.842 310560.41   9.17416 -0.12   0.59    1   0.5 0   6851916 105 128 0   TF-05-08    824.842
2449539.842 310560.41   9.28568 -0.08   0.59    1   0.58    0   6851896 105 107 0   TF-05-08    824.842
2449539.842 310560.41   9.39392 -0.12   0.61    1   0.62    0   6517652 99  97  0   TF-05-08    824.842
2449539.842 310560.41   9.46936 -0.05   0.61    1   0.5 0   6517683 99  128 0   TF-05-08    824.842
2449539.842 310560.41   9.5776  -0.07   0.61    1   0.69    0   6517634 99  79  0   TF-05-08    824.842
2449539.842 310560.41   9.64976 -0.09   0.56    1   0.64    0   7353231 112 92  0   TF-05-08    824.842
2449539.842 310560.41   9.76128 -0.12   0.64    1   0.59    0   6016309 92  105 0   TF-05-08    824.842
2449539.842 310560.41   9.86952 -0.11   0.64    1   0.55    0   6016320 92  115 0   TF-05-08    824.842
2449539.842 310560.41   9.94168 -0.08   0.58    1   0.59    0   7019010 107 105 0   TF-05-08    824.842
2449539.842 310560.41   10.0532 -0.06   0.58    1   0.56    0   7019018 107 112 0   TF-05-08    824.842
```

```
2449539.842 310560.41   10.12864    -0.05   0.57    1   0.57    0   7186132 110 110 0   TF-05-08    824.842
2449539.842 310560.41   10.23688    -0.06   0.58    1   0.54    0   7019023 107 117 0   TF-05-08    824.842
2449539.842 310560.41   10.3484 -0.05   0.62    1   0.57    0   6350548 97  110 0   TF-05-08    824.842
2449539.842 310560.41   10.42056    -0.06   0.71    1   0.71    0   4846461 74  74  0   TF-05-08    824.842
2449539.842 310560.41   10.5288 -0.08   0.55    1   0.44    0   7520399 115 143 0   TF-05-08    824.842
2449539.842 310560.41   10.64032    -0.06   0.58    1   0.57    0   7019015 107 110 0   TF-05-08    824.842
2449539.842 310560.41   10.71248    -0.09   0.56    1   0.66    0   7353226 112 87  0   TF-05-08    824.842
2449539.842 310560.41   10.824  -0.08   0.59    1   0.52    0   6851911 105 122 0   TF-05-08    824.842
2449539.842 310560.41   10.90272    -0.06   0.6 1   0.55    0   6684787 102 115 0   TF-05-08    824.842
2449539.842 310560.41   11.01096    -0.06   0.56    1   0.59    0   7353244 112 105 0   TF-05-08    824.842
2449539.842 310560.41   11.12248    -0.07   0.65    1   0.62    0   5849185 89  97  0   TF-05-08    824.842
2449539.842 310560.41   11.19464    -0.12   0.71    1   0.64    0   4846479 74  92  0   TF-05-08    824.842
2449539.842 310560.41   11.30616    -0.1    0.62    1   0.64    0   6350530 97  92  0   TF-05-08    824.842
2449539.842 310560.41   11.41768    -0.11   0.67    1   0.57    0   5514964 84  110 0   TF-05-08    824.842
2449539.842 310560.41   11.48984    -0.07   0.7 1   0.63    0   5013598 76  94  0   TF-05-08    824.842
2449539.842 310560.41   11.60136    -0.06   0.6 1   0.48    0   6684805 102 133 0   TF-05-08    824.842
2449539.842 310560.41   11.71616    -0.08   0.6 1   0.62    0   6684769 102 97  0   TF-05-08    824.842
2449539.842 310560.41   11.78832    -0.06   0.57    1   0.52    0   7186145 110 122 0   TF-05-08    824.842
2449539.842 310560.41   11.90312    -0.05   0.45    1   0.6 0   9191526 140 102 0   TF-05-08    824.842
2449539.842 310560.41   11.97528    -0.08   0.47    1   0.51    0   8857315 135 125 0   TF-05-08    824.842
2449539.842 310560.41   12.04416    -0.08   0.51    1   0.53    0   8188843 125 120 0   TF-05-08    824.842
2449539.842 310560.41   12.054  -0.08   0.7 1   0.68    0   5013586 76  82  0   TF-05-08    824.842
2449539.842 310560.41   12.09336    -0.13   0.57    1   0.58    0   7186130 110 107 0   TF-05-08    824.842
2449539.842 310560.41   12.16224    -0.1    0.57    1   0.6 0   7186124 110 102 0   TF-05-08    824.842
2449539.842 310560.41   12.2672 -0.07   0.54    1   0.57    0   7687482 117 110 0   TF-05-08    824.842
2449539.842 310560.41   12.33936    -0.1    0.6 1   0.59    0   6684777 102 105 0   TF-05-08    824.842
2449539.842 310560.41   12.44432    -0.08   0.58    1   0.55    0   7019020 107 115 0   TF-05-08    824.842
2449539.842 310560.41   12.54928    -0.1    0.57    1   0.59    0   7186127 110 105 0   TF-05-08    824.842
2449539.842 310560.41   12.61816    -0.09   0.62    1   0.58    0   6350546 97  107 0   TF-05-08    824.842
2449539.842 310560.41   12.71328    -0.08   0.66    1   0.66    0   5682058 87  87  0   TF-05-08    824.842
2449539.842 310560.41   12.77232    -0.06   0.57    1   0.52    0   7186145 110 122 0   TF-05-08    824.842
2449539.842 310560.41   12.87072    -0.09   0.5 1   0.53    0   8355960 128 120 0   TF-05-08    824.842
2449539.842 310560.41   12.96256    -0.1    0.56    1   0.62    0   7353236 112 97  0   TF-05-08    824.842
2449539.842 310560.41   12.98552    -0.07   0.59    1   0.57    0   6851898 105 110 0   TF-05-08    824.842
2449539.842 310560.41   13.05112    -0.1    0.61    1   0.52    0   6517678 99  122 0   TF-05-08    824.842
2449539.842 310560.41   13.07736    -0.1    0.56    1   0.53    0   7353259 112 120 0   TF-05-08    824.842
2449539.842 310560.41   13.09376    -0.09   0.57    1   0.49    0   7186152 110 130 0   TF-05-08    824.842
2449539.842 310560.41   13.1036 -0.06   0.53    1   0.5 0   7854617 120 128 0   TF-05-08    824.842
2449539.842 310560.41   13.12328    -0.12   0.68    1   0.65    0   5347827 82  89  0   TF-05-08    824.842
2449539.842 310560.41   13.14952    -0.14   0.67    1   0.71    0   5514928 84  74  0   TF-05-08    824.842
2449571.202 310585.414  0   0.03    0.36    1   0.76    0   10695536    163 61  0   TF-05-09    824.219
2449571.202 310585.414  0.00328 0.09    0.31    1   0.35    0   11531225    176 166 0   TF-05-09    824.219
2449571.202 310585.414  0.08528 0.24    0.5 1   0.24    0   8356034 128 194 0   TF-05-09    824.219
2449571.202 310585.414  0.13776 1.41    0.64    1   0.28    0.18    5475045 84  167 0   TF-05-09    824.219
2449571.202 310585.414  0.21976 2.07    0.79    1   0.34    0.18    3193722 49  153 0   TF-05-09    824.219
2449571.202 310585.414  0.29848 1.86    0.44    1   0.44    0.2 8422815 129 129 0   TF-05-09    824.219
2449571.202 310585.414  0.38376 1.13    0.4 1   0.36    0.14    9325269 142 152 0   TF-05-09    824.219
2449571.202 310585.414  0.43952 0.74    0.35    1   0.52    0.12    10210624    156 115 0   TF-05-09    824.219
2449571.202 310585.414  0.5248  0.4 0.44    1   0.51    0.09    8937264 136 119 0   TF-05-09    824.219
2449571.202 310585.414  0.6068  0.37    0.43    1   0.31    0.04    9335120 142 172 0   TF-05-09    824.219
2449571.202 310585.414  0.66256 0.31    0.49    1   0.31    0   8523133 130 176 0   TF-05-09    824.219
2449571.202 310585.414  0.74784 0.28    0.42    1   0.38    0   9692932 148 158 0   TF-05-09    824.219
2449571.202 310585.414  0.80688 0.32    0.49    1   0.37    0   8523117 130 161 0   TF-05-09    824.219
2449571.202 310585.414  0.89544 0.34    0.48    1   0.33    0   8690244 133 171 0   TF-05-09    824.219
2449571.202 310585.414  0.98072 0.3 0.38    1   0.29    0   10361423    158 181 0   TF-05-09    824.219
2449571.202 310585.414  1.03976 0.36    0.52    1   0.4 0   8021759 122 153 0   TF-05-09    824.219
2449571.202 310585.414  1.12832 0.35    0.46    1   0.42    0   9024455 138 148 0   TF-05-09    824.219
2449571.202 310585.414  1.21688 1.37    0.55    1   0.48    0.1 7144205 109 126 0   TF-05-09    824.219
2449571.202 310585.414  1.27592 1.87    0.61    1   0.6 0.11    6159170 94  96  0   TF-05-09    824.219
2449571.202 310585.414  1.36776 1.22    0.49    1   0.4 0.09    8139717 124 146 0   TF-05-09    824.219
2449571.202 310585.414  1.4268  0.67    0.4 1   0.42    0.05    9776149 149 144 0   TF-05-09    824.219
2449571.202 310585.414  1.51864 0.4 0.43    1   0.39    0   9525813 145 156 0   TF-05-09    824.219
2449571.202 310585.414  1.6072  0.24    0.57    1   0.43    0   7186168 110 145 0   TF-05-09    824.219
2449571.202 310585.414  1.66624 0.55    0.46    1   0.37    0.04    8844241 135 157 0   TF-05-09    824.219
2449571.202 310585.414  1.75808 2.69    0.47    1   0.82    0.38    7174263 109 37  0   TF-05-09    824.219
2449571.202 310585.414  1.84992 1.11    0.43    1   0.48    0.16    8763596 134 122 0   TF-05-09    824.219
2449571.202 310585.414  1.91224 0.83    0.49    1   0.45    0.1 8097106 124 133 0   TF-05-09    824.219
2449571.202 310585.414  2.00408 3.74    0.81    1   0.66    0.27    2746689 42  75  0   TF-05-09    824.219
2449571.202 310585.414  2.09592 20.46   0.7 1   0.32    0.09    4788226 73  166 0   TF-05-09    824.219
2449571.202 310585.414  2.18776 26.1    0.49    1   0.24    0.05    8310154 127 189 0   TF-05-09    824.219
2449571.202 310585.414  2.25008 26.95   0.48    1   0.23    0.08    8342921 127 188 0   TF-05-09    824.219
2449571.202 310585.414  2.33864 27.33   0.48    1   0.23    0.06    8429431 129 190 0   TF-05-09    824.219
2449571.202 310585.414  2.40096 27.98   0.5 1   0.24    0.06    8105680 124 188 0   TF-05-09    824.219
2449571.202 310585.414  2.49608 27.75   0.48    1   0.23    0.07    8386176 128 189 0   TF-05-09    824.219
2449571.202 310585.414  2.5584  28.36   0.49    1   0.24    0.07    8224955 126 187 0   TF-05-09    824.219
2449571.202 310585.414  2.624   29.28   0.48    1   0.24    0.06    8429428 129 188 0   TF-05-09    824.219
2449571.202 310585.414  2.67648 28.5    0.5 1   0.23    0.06    8105683 124 190 0   TF-05-09    824.219
2449571.202 310585.414  2.73224 30.31   0.49    1   0.23    0.09    8139759 124 188 0   TF-05-09    824.219
2449571.202 310585.414  2.81424 29.8    0.49    1   0.23    0.08    8182358 125 188 0   TF-05-09    824.219
2449571.202 310585.414  2.89296 29.45   0.5 1   0.24    0.06    8105680 124 188 0   TF-05-09    824.219
2449571.202 310585.414  2.952   30.08   0.49    1   0.23    0.07    8224957 126 189 0   TF-05-09    824.219
2449571.202 310585.414  3.04056 31.36   0.49    1   0.24    0.08    8182356 125 186 0   TF-05-09    824.219
2449571.202 310585.414  3.10288 29.39   0.49    1   0.24    0.08    8182356 125 186 0   TF-05-09    824.219
2449571.202 310585.414  3.19472 9.45    0.53    1   0.23    0.1 7462115 114 187 0   TF-05-09    824.219
2449571.202 310585.414  3.28656 9.96    0.54    1   0.23    0.08    7380197 113 188 0   TF-05-09    824.219
2449571.202 310585.414  3.3456  11.22   0.5 1   0.22    0.06    8105685 124 193 0   TF-05-09    824.219
2449571.202 310585.414  3.44072 14.97   0.5 1   0.22    0.07    8063741 123 192 0   TF-05-09    824.219
2449571.202 310585.414  3.53256 13.22   0.51    1   0.22    0.06    7943156 121 193 0   TF-05-09    824.219
2449571.202 310585.414  3.5916  11.9    0.52    1   0.22    0.08    7700671 118 191 0   TF-05-09    824.219
2449571.202 310585.414  3.68344 8.19    0.5 1   0.23    0.07    8063739 123 189 0   TF-05-09    824.219
2449571.202 310585.414  3.77856 8.05    0.52    1   0.22    0.07    7741304 118 192 0   TF-05-09    824.219
2449571.202 310585.414  3.8376  6.27    0.49    1   0.22    0.06    8267559 126 193 0   TF-05-09    824.219
2449571.202 310585.414  3.93272 5.4 0.5 1   0.23    0.06    8105683 124 190 0   TF-05-09    824.219
2449571.202 310585.414  4.02456 5.5 0.51    1   0.21    0.05    7984447 122 196 0   TF-05-09    824.219
2449571.202 310585.414  4.08688 7.03    0.49    1   0.21    0.05    8310161 127 196 0   TF-05-09    824.219
2449571.202 310585.414  4.17872 6.5 0.5 1   0.22    0.05    8146974 124 194 0   TF-05-09    824.219
2449571.202 310585.414  4.27384 5.98    0.51    1   0.21    0.06    7943159 121 195 0   TF-05-09    824.219
2449571.202 310585.414  4.33616 6.5 0.49    1   0.22    0.06    8267559 126 193 0   TF-05-09    824.219
2449571.202 310585.414  4.43128 2.24    0.48    1   0.24    0.05    8472683 129 189 0   TF-05-09    824.219
2449571.202 310585.414  4.49688 1.62    0.44    1   0.2 0.03    9218495 141 201 0   TF-05-09    824.219
2449571.202 310585.414  4.58872 0.46    0.35    1   0.25    0   10862783    166 191 0   TF-05-09    824.219
2449571.202 310585.414  4.68384 0.55    0.49    1   0.32    0   8523130 130 173 0   TF-05-09    824.219
```

```
2449571.202 310585.414  4.77568 0.43    0.49    1   0.33    0   8523128 130 171 0   TF-05-09    824.219
2449571.202 310585.414  4.83144 1.58    0.6 1   0.31    0.03    6584575 100 173 0   TF-05-09    824.219
2449571.202 310585.414  4.92656 2.16    0.66    1   0.32    0.03    5596945 85  171 0   TF-05-09    824.219
2449571.202 310585.414  4.99216 2   0.48    1   0.24    0.07    8386174 128 187 0   TF-05-09    824.219
2449571.202 310585.414  5.084   1.7 0.42    1   0.2 0.02    9595983 146 202 0   TF-05-09    824.219
2449571.202 310585.414  5.17912 1.42    0.42    1   0.2 0.02    9595983 146 202 0   TF-05-09    824.219
2449571.202 310585.414  5.27424 0.67    0.35    1   0.26    0.03    10699593    163 186 0   TF-05-09    824.219
2449571.202 310585.414  5.33656 0.74    0.42    1   0.27    0   9692961 148 186 0   TF-05-09    824.219
2449571.202 310585.414  5.43168 0.56    0.46    1   0.33    0   9024478 138 171 0   TF-05-09    824.219
2449571.202 310585.414  5.52352 0.5 0.39    1   0.26    0   10194314    156 189 0   TF-05-09    824.219
2449571.202 310585.414  5.58912 0.11    0.45    1   0.45    0   9191564 140 140 0   TF-05-09    824.219
2449571.202 310585.414  5.67768 0.18    0.53    1   0.4 0   7854643 120 153 0   TF-05-09    824.219
2449571.202 310585.414  5.73016 0.15    0.49    1   0.42    0   8523105 130 148 0   TF-05-09    824.219
2449571.202 310585.414  5.8056  0.11    0.52    1   0.47    0   8021742 122 135 0   TF-05-09    824.219
2449571.202 310585.414  5.86464 0.05    0.53    1   0.46    0   7854627 120 138 0   TF-05-09    824.219
2449571.202 310585.414  5.95648 0.1 0.54    1   0.52    0   7687495 117 122 0   TF-05-09    824.219
2449571.202 310585.414  6.0516  0.23    0.48    1   0.38    0   8690232 133 158 0   TF-05-09    824.219
2449571.202 310585.414  6.11392 0.09    0.47    1   0.44    0   8857333 135 143 0   TF-05-09    824.219
2449571.202 310585.414  6.20904 0.08    0.47    1   0.42    0   8857338 135 148 0   TF-05-09    824.219
2449571.202 310585.414  6.30416 0.08    0.53    1   0.44    0   7854632 120 143 0   TF-05-09    824.219
2449571.202 310585.414  6.36976 0.08    0.55    1   0.58    0   7520363 115 107 0   TF-05-09    824.219
2449571.202 310585.414  6.4616  0.06    0.4 1   0.44    0   10027151    153 143 0   TF-05-09    824.219
2449571.202 310585.414  6.5272  0.07    0.46    1   0.49    0   9024437 138 130 0   TF-05-09    824.219
2449571.202 310585.414  6.6256  0.12    0.41    1   0.38    0   9860049 150 158 0   TF-05-09    824.219
2449571.202 310585.414  6.72072 0.06    0.43    1   0.47    0   9525793 145 135 0   TF-05-09    824.219
2449571.202 310585.414  6.78632 0.1 0.49    1   0.45    0   8523097 130 140 0   TF-05-09    824.219
2449571.202 310585.414  6.88144 0.11    0.4 1   0.47    0   10027143    153 135 0   TF-05-09    824.219
2449571.202 310585.414  6.97656 0.09    0.54    1   0.49    0   7687503 117 130 0   TF-05-09    824.219
2449571.202 310585.414  7.04216 0.08    0.46    1   0.47    0   9024442 138 135 0   TF-05-09    824.219
2449571.202 310585.414  7.13728 0.07    0.45    1   0.38    0   9191582 140 158 0   TF-05-09    824.219
2449571.202 310585.414  7.20288 0.06    0.49    1   0.47    0   8523092 130 135 0   TF-05-09    824.219
2449571.202 310585.414  7.30128 0.1 0.5 1   0.48    0   8355973 128 133 0   TF-05-09    824.219
2449571.202 310585.414  7.39312 0.06    0.46    1   0.45    0   9024447 138 140 0   TF-05-09    824.219
2449571.202 310585.414  7.45872 0.03    0.51    1   0.44    0   8188866 125 143 0   TF-05-09    824.219
2449571.202 310585.414  7.55384 0.08    0.51    1   0.45    0   8188863 125 140 0   TF-05-09    824.219
2449571.202 310585.414  7.65224 0.07    0.64    1   0.6 0   6016307 92  102 0   TF-05-09    824.219
2449571.202 310585.414  7.71784 0.07    0.57    1   0.51    0   7186147 110 125 0   TF-05-09    824.219
2449571.202 310585.414  7.81624 0.05    0.41    1   0.47    0   9860026 150 135 0   TF-05-09    824.219
2449571.202 310585.414  7.91136 0.08    0.42    1   0.48    0   9692907 148 133 0   TF-05-09    824.219
2449571.202 310585.414  7.97696 0.04    0.45    1   0.47    0   9191559 140 135 0   TF-05-09    824.219
2449571.202 310585.414  8.07208 0.06    0.4 1   0.41    0   10027158    153 150 0   TF-05-09    824.219
2449571.202 310585.414  8.17048 0.05    0.53    1   0.62    0   7854586 120 97  0   TF-05-09    824.219
2449571.202 310585.414  8.23608 0.07    0.39    1   0.56    0   10194237    156 112 0   TF-05-09    824.219
2449571.202 310585.414  8.3312  0.1 0.56    1   0.51    0   7353264 112 125 0   TF-05-09    824.219
2449571.202 310585.414  8.4296  0.12    0.36    1   0.35    0   10695641    163 166 0   TF-05-09    824.219
2449571.202 310585.414  8.4952  0.08    0.31    1   0.29    0   11531240    176 181 0   TF-05-09    824.219
2449571.202 310585.414  8.59032 0.05    0.42    1   0.44    0   9692917 148 143 0   TF-05-09    824.219
2449571.202 310585.414  8.6592  0.1 0.57    1   0.51    0   7186147 110 125 0   TF-05-09    824.219
2449571.202 310585.414  8.75432 0.08    0.39    1   0.36    0   10194288    156 163 0   TF-05-09    824.219
2449571.202 310585.414  8.85272 0.16    0.31    1   0.37    0   11531220    176 161 0   TF-05-09    824.219
2449571.202 310585.414  8.91832 0.11    0.39    1   0.43    0   10194270    156 145 0   TF-05-09    824.219
2449571.202 310585.414  8.95112 0.11    0.42    1   0.48    0   9692907 148 133 0   TF-05-09    824.219
2449571.202 310585.414  8.95768 0.09    0.59    1   0.52    0   6851911 105 122 0   TF-05-09    824.219
2449571.202 310585.414  9.02656 0.1 0.37    1   0.42    0   10528506    161 148 0   TF-05-09    824.219
2449571.202 310585.414  9.11184 0.07    0.42    1   0.4 0   9692927 148 153 0   TF-05-09    824.219
2449571.202 310585.414  9.17088 0.07    0.5 1   0.46    0   8355978 128 138 0   TF-05-09    824.219
2449571.202 310585.414  9.26272 0.06    0.39    1   0.47    0   10194260    156 135 0   TF-05-09    824.219
2449571.202 310585.414  9.35456 0.04    0.45    1   0.42    0   9191572 140 148 0   TF-05-09    824.219
2449571.202 310585.414  9.41688 0.07    0.4 1   0.45    0   10027148    153 140 0   TF-05-09    824.219
2449571.202 310585.414  9.512   0.06    0.55    1   0.45    0   7520396 115 140 0   TF-05-09    824.219
2449571.202 310585.414  9.60056 0.1 0.42    1   0.41    0   9692925 148 150 0   TF-05-09    824.219
2449571.202 310585.414  9.66288 0.08    0.46    1   0.49    0   9024437 138 130 0   TF-05-09    824.219
2449571.202 310585.414  9.75472 0.09    0.48    1   0.47    0   8690209 133 135 0   TF-05-09    824.219
2449571.202 310585.414  9.81704 0.08    0.5 1   0.4 0   8355993 128 153 0   TF-05-09    824.219
2449571.202 310585.414  9.91216 0.04    0.42    1   0.39    0   9692930 148 156 0   TF-05-09    824.219
2449571.202 310585.414  10.004  0.13    0.42    1   0.38    0   9692932 148 158 0   TF-05-09    824.219
2449571.202 310585.414  10.0696 0.03    0.66    1   0.49    0   5682101 87  130 0   TF-05-09    824.219
2449571.202 310585.414  10.16472    0.06    0.65    1   0.54    0   5849205 89  117 0   TF-05-09    824.219
2449571.202 310585.414  10.22704    0.07    0.51    1   0.49    0   8188853 125 130 0   TF-05-09    824.219
2449571.202 310585.414  10.32216    0.1 0.66    1   0.46    0   5682109 87  138 0   TF-05-09    824.219
2449571.202 310585.414  10.414  0.06    0.49    1   0.46    0   8523094 130 138 0   TF-05-09    824.219
2449571.202 310585.414  10.47632    0.06    0.43    1   0.43    0   9525803 145 145 0   TF-05-09    824.219
2449571.202 310585.414  10.57472    0.03    0.46    1   0.58    0   9024414 138 107 0   TF-05-09    824.219
2449571.202 310585.414  10.66656    0.06    0.54    1   0.62    0   7687470 117 97  0   TF-05-09    824.219
2449571.202 310585.414  10.72888    0.1 0.51    1   0.57    0   8188833 125 110 0   TF-05-09    824.219
2449571.202 310585.414  10.82728    0.05    0.51    1   0.55    0   8188838 125 115 0   TF-05-09    824.219
2449571.202 310585.414  10.8896 0.03    0.57    1   0.52    0   7186145 110 122 0   TF-05-09    824.219
2449571.202 310585.414  10.98144    0.1 0.57    1   0.55    0   7186137 110 115 0   TF-05-09    824.219
2449571.202 310585.414  11.07656    0.07    0.46    1   0.49    0   9024437 138 130 0   TF-05-09    824.219
2449571.202 310585.414  11.13888    0.11    0.44    1   0.46    0   9358678 143 138 0   TF-05-09    824.219
2449571.202 310585.414  11.20776    0.11    0.39    1   0.41    0   10194275    156 150 0   TF-05-09    824.219
2449571.202 310585.414  11.24712    0.11    0.45    1   0.54    0   9191541 140 117 0   TF-05-09    824.219
2449571.202 310585.414  11.30944    0.12    0.39    1   0.32    0   10194298    156 173 0   TF-05-09    824.219
2449571.202 310585.414  11.39472    0.12    0.4 1   0.47    0   10027143    153 135 0   TF-05-09    824.219
2449571.202 310585.414  11.44392    0.06    0.6 1   0.46    0   6684810 102 138 0   TF-05-09    824.219
2449571.202 310585.414  11.51936    0.11    0.43    1   0.43    0   9525803 145 145 0   TF-05-09    824.219
2449571.202 310585.414  11.58168    0.04    0.55    1   0.51    0   7520381 115 125 0   TF-05-09    824.219
2449571.202 310585.414  11.60792    0   0.63    1   0.68    0   6183403 94  82  0   TF-05-09    824.219
2449571.202 310585.414  11.61776    -0.01   0.58    1   0.6 0   7019008 107 102 0   TF-05-09    824.219
2449564.107 310637.623  0   -0.08   0.77    0.83    1   0   3854784 59  0   43  TF-05-10    824.954
2449564.107 310637.623  0.00656 0.08    0.49    1   0.49    0   8523087 130 130 0   TF-05-10    824.954
2449564.107 310637.623  0.05904 0.17    0.33    1   0.56    0   11196938    171 112 0   TF-05-10    824.954
2449564.107 310637.623  0.14432 0.13    0.35    1   0.45    0   10862732    166 140 0   TF-05-10    824.954
2449564.107 310637.623  0.20664 0.58    0.45    1   0.46    0.12    8639740 132 129 0   TF-05-10    824.954
2449564.107 310637.623  0.29848 1.06    0.46    1   0.64    0.33    7535406 115 77  0   TF-05-10    824.954
2449564.107 310637.623  0.3608  1.9 0.64    1   0.61    0.29    5144006 78  85  0   TF-05-10    824.954
2449564.107 310637.623  0.45592 2.72    0.73    1   0.55    0.15    4174094 64  106 0   TF-05-10    824.954
2449564.107 310637.623  0.55104 1.09    0.42    1   0.38    0.17    8869132 135 145 0   TF-05-10    824.954
2449564.107 310637.623  0.64944 0.54    0.47    1   0.47    0.06    8591901 131 131 0   TF-05-10    824.954
2449564.107 310637.623  0.71176 0.39    0.44    1   0.38    0   9358699 143 158 0   TF-05-10    824.954
2449564.107 310637.623  0.81344 0.33    0.46    1   0.41    0   9024458 138 150 0   TF-05-10    824.954
2449564.107 310637.623  0.91184 0.26    0.34    1   0.46    0   11029846    168 138 0   TF-05-10    824.954
```

```
2449564.107 310637.623  0.97416 0.27    0.46    1   0.32    0   9024481 138 173 0   TF-05-10    824.954
2449564.107 310637.623  1.066   0.24    0.46    1   0.48    0   9024440 138 133 0   TF-05-10    824.954
2449564.107 310637.623  1.12504 0.27    0.62    1   0.49    0   6350568 97  130 0   TF-05-10    824.954
2449564.107 310637.623  1.1972  0.2 0.47    1   0.47    0   8857326 135 135 0   TF-05-10    824.954
2449564.107 310637.623  1.25952 0.19    0.5 1   0.37    0   8356001 128 161 0   TF-05-10    824.954
2449564.107 310637.623  1.32512 0.27    0.49    1   0.43    0   8523102 130 145 0   TF-05-10    824.954
2449564.107 310637.623  1.40056 0.32    0.5 1   0.33    0   8356011 128 171 0   TF-05-10    824.954
2449564.107 310637.623  1.46616 0.41    0.54    1   0.3 0   7687551 117 178 0   TF-05-10    824.954
2449564.107 310637.623  1.56784 0.38    0.53    1   0.28    0   7854673 120 184 0   TF-05-10    824.954
2449564.107 310637.623  1.66952 0.37    0.56    1   0.34    0   7353308 112 168 0   TF-05-10    824.954
2449564.107 310637.623  1.73512 0.35    0.45    1   0.37    0   9191585 140 161 0   TF-05-10    824.954
2449564.107 310637.623  1.83352 0.38    0.54    1   0.39    0   7687528 117 156 0   TF-05-10    824.954
2449564.107 310637.623  1.93848 0.55    0.45    1   0.38    0   9191582 140 158 0   TF-05-10    824.954
2449564.107 310637.623  2.00408 0.57    0.57    1   0.37    0   7186183 110 161 0   TF-05-10    824.954
2449564.107 310637.623  2.10576 0.77    0.59    1   0.35    0.03    6749061 103 163 0   TF-05-10    824.954
2449564.107 310637.623  2.17464 0.93    0.6 1   0.35    0.05    6517717 99  162 0   TF-05-10    824.954
2449564.107 310637.623  2.27304 1.52    0.63    1   0.42    0.07    5967196 91  143 0   TF-05-10    824.954
2449564.107 310637.623  2.37472 1.15    0.57    1   0.36    0.07    6934522 106 157 0   TF-05-10    824.954
2449564.107 310637.623  2.46    0.51    0.53    1   0.3 0.08    7540744 115 171 0   TF-05-10    824.954
2449564.107 310637.623  2.5092  0.45    0.48    1   0.37    0   8690234 133 161 0   TF-05-10    824.954
2449564.107 310637.623  2.53872 0.48    0.49    1   0.34    0   8523125 130 168 0   TF-05-10    824.954
2449564.107 310637.623  2.63056 0.51    0.5 1   0.29    0.07    8063724 123 175 0   TF-05-10    824.954
2449564.107 310637.623  2.72896 0.32    0.38    1   0.3 0.02    10257871    157 177 0   TF-05-10    824.954
2449564.107 310637.623  2.79128 0.42    0.5 1   0.31    0.01    8314072 127 175 0   TF-05-10    824.954
2449564.107 310637.623  2.89296 0.47    0.44    1   0.4 0.01    9312162 142 152 0   TF-05-10    824.954
2449564.107 310637.623  2.96184 0.47    0.37    1   0.33    0.08    10107126    154 164 0   TF-05-10    824.954
2449564.107 310637.623  3.06352 0.43    0.42    1   0.29    0   9692955 148 181 0   TF-05-10    824.954
2449564.107 310637.623  3.1652  0.41    0.41    1   0.3 0   9860070 150 178 0   TF-05-10    824.954
2449564.107 310637.623  3.23408 0.39    0.44    1   0.39    0   9358696 143 156 0   TF-05-10    824.954
2449564.107 310637.623  3.33576 0.64    0.43    1   0.37    0.04    9335105 142 157 0   TF-05-10    824.954
2449564.107 310637.623  3.43744 0.83    0.47    1   0.39    0.1 8414315 128 148 0   TF-05-10    824.954
2449564.107 310637.623  3.50632 0.73    0.47    1   0.38    0.1 8414317 128 150 0   TF-05-10    824.954
2449564.107 310637.623  3.608   0.33    0.55    1   0.41    0   7520406 115 150 0   TF-05-10    824.954
2449564.107 310637.623  3.71296 0.34    0.41    1   0.27    0   9860077 150 186 0   TF-05-10    824.954
2449564.107 310637.623  3.78184 0.23    0.52    1   0.34    0   8021775 122 168 0   TF-05-10    824.954
2449564.107 310637.623  3.88352 0.27    0.41    1   0.36    0   9860054 150 163 0   TF-05-10    824.954
2449564.107 310637.623  3.9524  0.39    0.43    1   0.26    0.05    9287946 142 184 0   TF-05-10    824.954
2449564.107 310637.623  4.05736 0.2 0.44    1   0.41    0   9358691 143 150 0   TF-05-10    824.954
2449564.107 310637.623  4.15904 0.23    0.47    1   0.39    0   8857346 135 156 0   TF-05-10    824.954
2449564.107 310637.623  4.22792 0.23    0.44    1   0.35    0   9358707 143 166 0   TF-05-10    824.954
2449564.107 310637.623  4.3296  0.2 0.39    1   0.33    0   10194296    156 171 0   TF-05-10    824.954
2449564.107 310637.623  4.43456 0.18    0.53    1   0.41    0   7854640 120 150 0   TF-05-10    824.954
2449564.107 310637.623  4.50672 0.15    0.37    1   0.33    0   10528529    161 171 0   TF-05-10    824.954
2449564.107 310637.623  4.61168 0.18    0.46    1   0.35    0   9024473 138 166 0   TF-05-10    824.954
2449564.107 310637.623  4.68056 0.17    0.45    1   0.44    0   9191567 140 143 0   TF-05-10    824.954
2449564.107 310637.623  4.78552 0.14    0.56    1   0.5 0   7353267 112 128 0   TF-05-10    824.954
2449564.107 310637.623  4.89048 0.22    0.51    1   0.37    0   8188884 125 161 0   TF-05-10    824.954
2449564.107 310637.623  4.95936 0.18    0.46    1   0.42    0   9024455 138 148 0   TF-05-10    824.954
2449564.107 310637.623  5.0676  0.18    0.4 1   0.39    0   10027164    153 156 0   TF-05-10    824.954
2449564.107 310637.623  5.13648 0.16    0.48    1   0.53    0   8690193 133 120 0   TF-05-10    824.954
2449564.107 310637.623  5.24144 0.31    0.47    1   0.38    0   8857348 135 158 0   TF-05-10    824.954
2449564.107 310637.623  5.34968 1.61    0.44    1   0.36    0.06    9078205 139 158 0   TF-05-10    824.954
2449564.107 310637.623  5.41856 1.25    0.41    1   0.34    0.06    9564487 146 163 0   TF-05-10    824.954
2449564.107 310637.623  5.52352 0.99    0.42    1   0.25    0.05    9450478 144 186 0   TF-05-10    824.954
2449564.107 310637.623  5.63176 0.66    0.36    1   0.28    0   10695659    163 184 0   TF-05-10    824.954
2449564.107 310637.623  5.70064 0.4 0.38    1   0.23    0   10361438    158 196 0   TF-05-10    824.954
2449564.107 310637.623  5.76296 0.27    0.44    1   0.45    0   9358681 143 140 0   TF-05-10    824.954
2449564.107 310637.623  5.79904 0.26    0.35    1   0.31    0   10862768    166 176 0   TF-05-10    824.954
2449564.107 310637.623  5.85808 0.33    0.46    1   0.45    0   9024447 138 140 0   TF-05-10    824.954
2449564.107 310637.623  5.9532  0.26    0.3 1   0.3 0   11698354    178 178 0   TF-05-10    824.954
2449564.107 310637.623  6.0188  0.21    0.46    1   0.41    0   9024458 138 150 0   TF-05-10    824.954
2449564.107 310637.623  6.12048 0.11    0.43    1   0.46    0   9525795 145 138 0   TF-05-10    824.954
2449564.107 310637.623  6.18936 0.15    0.43    1   0.56    0   9525770 145 112 0   TF-05-10    824.954
2449564.107 310637.623  6.29104 0.18    0.36    1   0.45    0   10695615    163 140 0   TF-05-10    824.954
2449564.107 310637.623  6.39272 0.14    0.5 1   0.54    0   8355957 128 117 0   TF-05-10    824.954
2449564.107 310637.623  6.4616  0.17    0.5 1   0.44    0   8355983 128 143 0   TF-05-10    824.954
2449564.107 310637.623  6.56328 0.18    0.38    1   0.37    0   10361402    158 161 0   TF-05-10    824.954
2449564.107 310637.623  6.66496 0.17    0.5 1   0.42    0   8355988 128 148 0   TF-05-10    824.954
2449564.107 310637.623  6.73384 0.14    0.51    1   0.56    0   8188835 125 112 0   TF-05-10    824.954
2449564.107 310637.623  6.83552 0.14    0.55    1   0.45    0   7520396 115 140 0   TF-05-10    824.954
2449564.107 310637.623  6.9044  0.15    0.39    1   0.49    0   10194255    156 130 0   TF-05-10    824.954
2449564.107 310637.623  7.00936 0.14    0.51    1   0.46    0   8188861 125 138 0   TF-05-10    824.954
2449564.107 310637.623  7.11104 0.14    0.55    1   0.42    0   7520404 115 148 0   TF-05-10    824.954
2449564.107 310637.623  7.17992 0.15    0.36    1   0.48    0   10695608    163 133 0   TF-05-10    824.954
2449564.107 310637.623  7.28488 0.15    0.44    1   0.3 0   9358719 143 178 0   TF-05-10    824.954
2449564.107 310637.623  7.35376 0.17    0.4 1   0.44    0   10027151    153 143 0   TF-05-10    824.954
2449564.107 310637.623  7.45872 0.19    0.4 1   0.37    0   10027169    153 161 0   TF-05-10    824.954
2449564.107 310637.623  7.56368 0.15    0.5 1   0.58    0   8355947 128 107 0   TF-05-10    824.954
2449564.107 310637.623  7.62928 0.12    0.36    1   0.47    0   10695610    163 135 0   TF-05-10    824.954
2449564.107 310637.623  7.73752 0.15    0.34    1   0.45    0   11029849    168 140 0   TF-05-10    824.954
2449564.107 310637.623  7.80968 0.16    0.42    1   0.46    0   9692912 148 138 0   TF-05-10    824.954
2449564.107 310637.623  7.91136 0.16    0.42    1   0.4 0   9692927 148 153 0   TF-05-10    824.954
2449564.107 310637.623  8.0196  0.18    0.44    1   0.25    0   9358732 143 191 0   TF-05-10    824.954
2449564.107 310637.623  8.08848 0.16    0.38    1   0.46    0   10361379    158 138 0   TF-05-10    824.954
2449564.107 310637.623  8.19344 0.17    0.39    1   0.41    0   10194275    156 150 0   TF-05-10    824.954
2449564.107 310637.623  8.30168 0.14    0.44    1   0.43    0   9358686 143 145 0   TF-05-10    824.954
2449564.107 310637.623  8.37056 0.17    0.48    1   0.41    0   8690224 133 150 0   TF-05-10    824.954
2449564.107 310637.623  8.4788  0.18    0.37    1   0.32    0   10528532    161 173 0   TF-05-10    824.954
2449564.107 310637.623  8.58704 0.22    0.36    1   0.36    0.05    10428247    159 159 0   TF-05-10    824.954
2449564.107 310637.623  8.65592 0.2 0.43    1   0.4 0   9525811 145 153 0   TF-05-10    824.954
2449564.107 310637.623  8.76088 0.18    0.38    1   0.45    0.05    10102511    154 137 0   TF-05-10    824.954
2449564.107 310637.623  8.83632 0.14    0.44    1   0.43    0   9358686 143 145 0   TF-05-10    824.954
2449564.107 310637.623  8.94128 0.19    0.35    1   0.48    0.02    10753934    164 131 0   TF-05-10    824.954
2449564.107 310637.623  9.02328 0.15    0.4 1   0.38    0   10027166    153 158 0   TF-05-10    824.954
2449564.107 310637.623  9.03312 0.18    0.3 1   0.42    0   11698324    178 148 0   TF-05-10    824.954
2449564.107 310637.623  9.09872 0.18    0.35    1   0.36    0   10862755    166 163 0   TF-05-10    824.954
2449564.107 310637.623  9.1676  0.14    0.44    1   0.43    0   9358686 143 145 0   TF-05-10    824.954
2449564.107 310637.623  9.27256 0.13    0.45    1   0.44    0   9191567 140 143 0   TF-05-10    824.954
2449564.107 310637.623  9.37752 0.14    0.49    1   0.55    0   8523072 130 115 0   TF-05-10    824.954
2449564.107 310637.623  9.45296 0.19    0.38    1   0.48    0.02    10257826    157 131 0   TF-05-10    824.954
2449564.107 310637.623  9.55792 0.16    0.43    1   0.59    0   9525762 145 105 0   TF-05-10    824.954
2449564.107 310637.623  9.6268  0.16    0.37    1   0.32    0   10528532    161 173 0   TF-05-10    824.954
```

```
2449564.107 310637.623  9.73504 0.16    0.42    1   0.3 0   9692953 148 178 0   TF-05-10    824.954
2449564.107 310637.623  9.84    0.17    0.51    1   0.34    0   8188892 125 168 0   TF-05-10    824.954
2449564.107 310637.623  9.90888 0.15    0.37    1   0.37    0   10528519    161 161 0   TF-05-10    824.954
2449564.107 310637.623  10.01712    0.16    0.46    1   0.45    0   9024447 138 140 0   TF-05-10    824.954
2449564.107 310637.623  10.12208    0.17    0.33    1   0.36    0   11196989    171 163 0   TF-05-10    824.954
2449564.107 310637.623  10.19424    0.16    0.32    1   0.33    0   11364113    173 171 0   TF-05-10    824.954
2449564.107 310637.623  10.30576    0.19    0.39    1   0.44    0.02    10092030    154 141 0   TF-05-10    824.954
2449564.107 310637.623  10.37464    0.2 0.54    1   0.39    0   7687528 117 156 0   TF-05-10    824.954
2449564.107 310637.623  10.4796 0.16    0.32    1   0.26    0   11364131    173 189 0   TF-05-10    824.954
2449564.107 310637.623  10.58456    0.22    0.33    1   0.36    0.08    10749371    164 157 0   TF-05-10    824.954
2449564.107 310637.623  10.65344    0.18    0.41    1   0.37    0.04    9662785 147 157 0   TF-05-10    824.954
2449564.107 310637.623  10.7584 0.19    0.4 1   0.4 0.04    9826618 150 150 0   TF-05-10    824.954
2449564.107 310637.623  10.86336    0.2 0.5 1   0.47    0   8355975 128 135 0   TF-05-10    824.954
2449564.107 310637.623  10.93224    0.21    0.42    1   0.41    0   9692925 148 150 0   TF-05-10    824.954
2449564.107 310637.623  11.04048    0.18    0.46    1   0.43    0.03    8888791 136 143 0   TF-05-10    824.954
2449564.107 310637.623  11.14216    0.17    0.41    1   0.43    0   9860037 150 145 0   TF-05-10    824.954
2449564.107 310637.623  11.21432    0.18    0.42    1   0.35    0   9692940 148 166 0   TF-05-10    824.954
2449564.107 310637.623  11.31928    0.16    0.39    1   0.36    0   10194288    156 163 0   TF-05-10    824.954
2449564.107 310637.623  11.38816    0.18    0.48    1   0.35    0   8690239 133 166 0   TF-05-10    824.954
2449564.107 310637.623  11.49312    0.19    0.46    1   0.38    0.03    8888803 136 156 0   TF-05-10    824.954
2449564.107 310637.623  11.59808    0.2 0.46    1   0.4 0   9024460 138 153 0   TF-05-10    824.954
2449564.107 310637.623  11.67024    0.21    0.33    1   0.35    0.05    10917148    167 162 0   TF-05-10    824.954
2449564.107 310637.623  11.77192    0.19    0.43    1   0.41    0.15    8811454 134 139 0   TF-05-10    824.954
2449564.107 310637.623  11.8408 0.16    0.47    1   0.39    0   8857346 135 156 0   TF-05-10    824.954
2449564.107 310637.623  11.9392 0.18    0.37    1   0.36    0.04    10318148    157 160 0   TF-05-10    824.954
2449564.107 310637.623  11.9556 0.2 0.36    1   0.37    0.07    10321420    157 155 0   TF-05-10    824.954
2449564.107 310637.623  12.01464    0.08    0.42    1   0.45    0   9692915 148 140 0   TF-05-10    824.954
2449564.107 310637.623  12.09336    0.1 0.41    1   0.47    0   9860026 150 135 0   TF-05-10    824.954
2449564.107 310637.623  12.14584    0.05    0.51    1   0.54    0   8188840 125 117 0   TF-05-10    824.954
2449564.107 310637.623  12.1688 0.07    0.45    1   0.43    0   9191569 140 145 0   TF-05-10    824.954
2449564.107 310637.623  12.19832    0.08    0.5 1   0.55    0   8355955 128 115 0   TF-05-10    824.954
2449564.107 310637.623  12.22128    0.1 0.46    1   0.24    0   9024501 138 194 0   TF-05-10    824.954
2449564.107 310637.623  12.24096    0.06    0.48    1   0.47    0   8690209 133 135 0   TF-05-10    824.954
```

```
# C Tech Data Tool generated APDV File from W:\PROJECTS\LOCKHEADMARTIN\WILCOX\MVS\DATA\ROSTALL_TF-10_011216-REDUCED.APDV
(1/12/2016 11:40:56 AM)
x y z @@Fluorescence Boring Elevation
Elevation Ft
1355 1 %RE
2447893.155 309672.589 783.458 1.28 P-03-01 783.458
2447893.155 309672.589 783.30384 1.07 P-03-01 783.458
2447893.155 309672.589 783.09064 2.63 P-03-01 783.458
2447893.155 309672.589 782.87088 1.02 P-03-01 783.458
2447893.155 309672.589 782.6872 0.99 P-03-01 783.458
2447893.155 309672.589 782.51992 0.93 P-03-01 783.458
2447893.155 309672.589 782.3592 0.94 P-03-01 783.458
2447893.155 309672.589 782.16896 0.95 P-03-01 783.458
2447893.155 309672.589 782.00496 1.05 P-03-01 783.458
2447893.155 309672.589 781.83768 1.05 P-03-01 783.458
2447893.155 309672.589 781.67696 1.02 P-03-01 783.458
2447893.155 309672.589 781.47688 0.88 P-03-01 783.458
2447893.155 309672.589 781.3096 1.13 P-03-01 783.458
2447893.155 309672.589 781.09968 1.06 P-03-01 783.458
2447893.155 309672.589 780.94224 1.42 P-03-01 783.458
2447893.155 309672.589 780.77824 1.07 P-03-01 783.458
2447893.155 309672.589 780.61424 1.1 P-03-01 783.458
2447893.155 309672.589 780.42072 0.99 P-03-01 783.458
2447893.155 309672.589 780.24688 0.75 P-03-01 783.458
2447893.155 309672.589 780.07632 0.98 P-03-01 783.458
2447893.155 309672.589 779.90576 1.05 P-03-01 783.458
2447893.155 309672.589 779.69912 0.94 P-03-01 783.458
2447893.155 309672.589 779.522 0.91 P-03-01 783.458
2447893.155 309672.589 779.34816 1.04 P-03-01 783.458
2447893.155 309672.589 779.14152 1.02 P-03-01 783.458
2447893.155 309672.589 778.9644 0.65 P-03-01 783.458
2447893.155 309672.589 778.79056 0.64 P-03-01 783.458
2447893.155 309672.589 778.6856 0.41 P-03-01 783.458
2447893.155 309672.589 778.51176 0.84 P-03-01 783.458
2447893.155 309672.589 778.33464 0.79 P-03-01 783.458
2447893.155 309672.589 778.15752 0.82 P-03-01 783.458
2447893.155 309672.589 778.0132 0.7 P-03-01 783.458
2447893.155 309672.589 777.82296 0.78 P-03-01 783.458
2447893.155 309672.589 777.6524 0.8 P-03-01 783.458
2447893.155 309672.589 777.47856 0.73 P-03-01 783.458
2447893.155 309672.589 777.31128 1.16 P-03-01 783.458
2447893.155 309672.589 777.12432 1.21 P-03-01 783.458
2447893.155 309672.589 776.91112 1.15 P-03-01 783.458
2447893.155 309672.589 776.72744 1.34 P-03-01 783.458
2447893.155 309672.589 776.54376 1.37 P-03-01 783.458
2447893.155 309672.589 776.36008 1.28 P-03-01 783.458
2447893.155 309672.589 776.1436 1.28 P-03-01 783.458
2447893.155 309672.589 775.95992 1.33 P-03-01 783.458
2447893.155 309672.589 775.77624 1.26 P-03-01 783.458
2447893.155 309672.589 775.5532 1.26 P-03-01 783.458
2447893.155 309672.589 775.36952 1.34 P-03-01 783.458
2447893.155 309672.589 775.18584 1.18 P-03-01 783.458
2447893.155 309672.589 774.99888 1.2 P-03-01 783.458
2447893.155 309672.589 774.85128 1.15 P-03-01 783.458
2447893.155 309672.589 774.71024 1.15 P-03-01 783.458
2447893.155 309672.589 774.5364 1.16 P-03-01 783.458
2447893.155 309672.589 774.3232 1.13 P-03-01 783.458
2447893.155 309672.589 774.14608 1.22 P-03-01 783.458
2447893.155 309672.589 773.95912 1.31 P-03-01 783.458
2447893.155 309672.589 773.77216 1.23 P-03-01 783.458
2447893.155 309672.589 773.54912 1.15 P-03-01 783.458
2447893.155 309672.589 773.36216 1.3 P-03-01 783.458
2447893.155 309672.589 773.16864 1.1 P-03-01 783.458
2447893.155 309672.589 772.9784 1.03 P-03-01 783.458
2447893.155 309672.589 772.75208 0.95 P-03-01 783.458
2447893.155 309672.589 772.56184 1.08 P-03-01 783.458
2447893.155 309672.589 772.3716 1.14 P-03-01 783.458
2447893.155 309672.589 772.18136 1.08 P-03-01 783.458
2447893.155 309672.589 771.95176 1.21 P-03-01 783.458
2447893.155 309672.589 771.76152 1.24 P-03-01 783.458
2447893.155 309672.589 771.57128 1.06 P-03-01 783.458
2447893.155 309672.589 771.38104 1.28 P-03-01 783.458
2447893.155 309672.589 771.1908 1.08 P-03-01 783.458
2447893.155 309672.589 771.0104 0.95 P-03-01 783.458
2447893.155 309672.589 770.85624 1.26 P-03-01 783.458
2447893.155 309672.589 770.67912 1.38 P-03-01 783.458
2447893.155 309672.589 770.57416 1.45 P-03-01 783.458
2447893.155 309672.589 770.38392 1.18 P-03-01 783.458
2447893.155 309672.589 770.20024 0.96 P-03-01 783.458
2447893.155 309672.589 769.97392 0.91 P-03-01 783.458
2447893.155 309672.589 769.79024 0.33 P-03-01 783.458
2447893.155 309672.589 769.6 0.86 P-03-01 783.458
2447893.155 309672.589 769.40976 0.91 P-03-01 783.458
2447893.155 309672.589 769.18016 1.24 P-03-01 783.458
2447893.155 309672.589 768.99648 1.08 P-03-01 783.458
2447893.155 309672.589 768.81608 1.29 P-03-01 783.458
2447893.155 309672.589 768.64552 1.25 P-03-01 783.458
2447893.155 309672.589 768.47824 1.24 P-03-01 783.458
2447893.155 309672.589 768.37328 1.34 P-03-01 783.458
2447893.155 309672.589 768.206 1.23 P-03-01 783.458
2447893.155 309672.589 768.0748 1.11 P-03-01 783.458
2447893.155 309672.589 767.93048 1.01 P-03-01 783.458
2447893.155 309672.589 767.74352 1.11 P-03-01 783.458
2447893.155 309672.589 767.58936 1.1 P-03-01 783.458
2447893.155 309672.589 767.43192 1.29 P-03-01 783.458
2447893.155 309672.589 767.27448 1.19 P-03-01 783.458
2447893.155 309672.589 767.08752 1.25 P-03-01 783.458
2447893.155 309672.589 766.92352 1.3 P-03-01 783.458
2447893.155 309672.589 766.75952 0.9 P-03-01 783.458
2447893.155 309672.589 766.59552 0.96 P-03-01 783.458
2447893.155 309672.589 766.39872 0.79 P-03-01 783.458
2447893.155 309672.589 766.22816 0.6 P-03-01 783.458
```

```
2447893.155 309672.589 766.06088 0.5 P-03-01 783.458
2447893.155 309672.589 765.88704 0.74 P-03-01 783.458
2447893.155 309672.589 765.68368 0.59 P-03-01 783.458
2447893.155 309672.589 765.51312 0.83 P-03-01 783.458
2447893.155 309672.589 765.34256 0.75 P-03-01 783.458
2447893.155 309672.589 765.172 0.94 P-03-01 783.458
2447893.155 309672.589 764.96536 0.75 P-03-01 783.458
2447893.155 309672.589 764.80136 0.98 P-03-01 783.458
2447893.155 309672.589 764.64064 0.9 P-03-01 783.458
2447893.155 309672.589 764.44384 1.01 P-03-01 783.458
2447893.155 309672.589 764.27984 0.96 P-03-01 783.458
2447893.155 309672.589 764.106 0.73 P-03-01 783.458
2447893.155 309672.589 763.93872 0.81 P-03-01 783.458
2447893.155 309672.589 763.7288 1.03 P-03-01 783.458
2447893.155 309672.589 763.55168 1.19 P-03-01 783.458
2447893.155 309672.589 763.37784 0.97 P-03-01 783.458
2447893.155 309672.589 763.204 0.96 P-03-01 783.458
2447893.155 309672.589 762.9908 1.12 P-03-01 783.458
2447893.155 309672.589 762.81696 0.8 P-03-01 783.458
2447893.155 309672.589 762.63984 0.75 P-03-01 783.458
2447893.155 309672.589 762.46272 0.96 P-03-01 783.458
2447893.155 309672.589 762.2528 1.16 P-03-01 783.458
2447893.155 309672.589 762.07896 1.09 P-03-01 783.458
2447893.155 309672.589 761.89856 1.22 P-03-01 783.458
2447893.155 309672.589 761.73456 1.04 P-03-01 783.458
2447893.155 309672.589 761.60008 1.21 P-03-01 783.458
2447893.155 309672.589 761.40984 1.14 P-03-01 783.458
2447893.155 309672.589 761.24256 0.98 P-03-01 783.458
2447893.155 309672.589 761.06544 1 P-03-01 783.458
2447893.155 309672.589 760.89816 1.11 P-03-01 783.458
2447893.155 309672.589 760.6948 0.83 P-03-01 783.458
2447893.155 309672.589 760.52096 0.93 P-03-01 783.458
2447893.155 309672.589 760.34384 0.85 P-03-01 783.458
2447893.155 309672.589 760.16672 0.91 P-03-01 783.458
2447893.155 309672.589 759.96336 0.92 P-03-01 783.458
2447893.155 309672.589 759.78624 0.56 P-03-01 783.458
2447893.155 309672.589 759.60912 0.51 P-03-01 783.458
2447893.155 309672.589 759.432 0.72 P-03-01 783.458
2447893.155 309672.589 759.2188 0.58 P-03-01 783.458
2447893.155 309672.589 759.04168 0.77 P-03-01 783.458
2447893.155 309672.589 758.86784 0.74 P-03-01 783.458
2447893.155 309672.589 758.65464 0.76 P-03-01 783.458
2447893.155 309672.589 758.43488 0.78 P-03-01 783.458
2447893.155 309672.589 758.27416 0.82 P-03-01 783.458
2447893.155 309672.589 758.07408 0.8 P-03-01 783.458
2447893.155 309672.589 757.90352 0.78 P-03-01 783.458
2447893.155 309672.589 757.73624 0.91 P-03-01 783.458
2447893.155 309672.589 757.56568 0.63 P-03-01 783.458
2447893.155 309672.589 757.3492 1.12 P-03-01 783.458
2447893.155 309672.589 757.17208 1.15 P-03-01 783.458
2447893.155 309672.589 756.99824 1.01 P-03-01 783.458
2447893.155 309672.589 756.82112 1.07 P-03-01 783.458
2447893.155 309672.589 756.60792 1.15 P-03-01 783.458
2447893.155 309672.589 756.4308 1.25 P-03-01 783.458
2447893.155 309672.589 756.25368 1.18 P-03-01 783.458
2447893.155 309672.589 756.07656 1.24 P-03-01 783.458
2447893.155 309672.589 755.86336 1.06 P-03-01 783.458
2447893.155 309672.589 755.68624 1.11 P-03-01 783.458
2447893.155 309672.589 755.50584 1.11 P-03-01 783.458
2447893.155 309672.589 755.33856 0.98 P-03-01 783.458
2447893.155 309672.589 755.19096 0.99 P-03-01 783.458
2447893.155 309672.589 754.99744 1.04 P-03-01 783.458
2447893.155 309672.589 754.82688 1.14 P-03-01 783.458
2447893.155 309672.589 754.65632 0.95 P-03-01 783.458
2447893.155 309672.589 754.48576 1.07 P-03-01 783.458
2447893.155 309672.589 754.27912 0.99 P-03-01 783.458
2447893.155 309672.589 754.10528 1.05 P-03-01 783.458
2447893.155 309672.589 753.92488 1.11 P-03-01 783.458
2447893.155 309672.589 753.74776 0.83 P-03-01 783.458
2447893.155 309672.589 753.53784 0.96 P-03-01 783.458
2447893.155 309672.589 753.36072 0.86 P-03-01 783.458
2447893.155 309672.589 753.18032 0.82 P-03-01 783.458
2447893.155 309672.589 753.0032 0.72 P-03-01 783.458
2447893.155 309672.589 752.79328 0.93 P-03-01 783.458
2447893.155 309672.589 752.61288 0.71 P-03-01 783.458
2447893.155 309672.589 752.43576 0.82 P-03-01 783.458
2447893.155 309672.589 752.25864 0.85 P-03-01 783.458
2447893.155 309672.589 752.12088 0.78 P-03-01 783.458
2447893.155 309672.589 751.9372 0.86 P-03-01 783.458
2447893.155 309672.589 751.7732 0.81 P-03-01 783.458
2447893.155 309672.589 751.60592 0.77 P-03-01 783.458
2447893.155 309672.589 751.43864 0.66 P-03-01 783.458
2447893.155 309672.589 751.232 0.68 P-03-01 783.458
2447893.155 309672.589 751.05816 0.6 P-03-01 783.458
2447893.155 309672.589 750.8876 0.83 P-03-01 783.458
2447893.155 309672.589 750.71376 0.55 P-03-01 783.458
2447893.155 309672.589 750.50384 0.94 P-03-01 783.458
2447893.155 309672.589 750.33656 0.82 P-03-01 783.458
2447893.155 309672.589 750.166 1.12 P-03-01 783.458
2447893.155 309672.589 749.99216 0.89 P-03-01 783.458
2447893.155 309672.589 749.79536 0.95 P-03-01 783.458
2447893.155 309672.589 749.63792 0.87 P-03-01 783.458
2447893.155 309672.589 749.47392 1.05 P-03-01 783.458
2447893.155 309672.589 749.30336 0.78 P-03-01 783.458
2447893.155 309672.589 749.09344 1.05 P-03-01 783.458
2447893.155 309672.589 748.96224 0.65 P-03-01 783.458
2447893.155 309672.589 748.80152 0.75 P-03-01 783.458
2447893.155 309672.589 748.63752 0.68 P-03-01 783.458
2447893.155 309672.589 748.47352 0.76 P-03-01 783.458
2447893.155 309672.589 748.2964 0.71 P-03-01 783.458
2447893.155 309672.589 748.09304 0.64 P-03-01 783.458
2447893.155 309672.589 747.92576 0.75 P-03-01 783.458
```

```
2447893.155 309672.589 747.74864 0.65 P-03-01 783.458
2447893.155 309672.589 747.53544 0.68 P-03-01 783.458
2447893.155 309672.589 747.3616 0.7 P-03-01 783.458
2447893.155 309672.589 747.19432 0.64 P-03-01 783.458
2447893.155 309672.589 747.02048 0.7 P-03-01 783.458
2447893.155 309672.589 746.85648 0.63 P-03-01 783.458
2447893.155 309672.589 746.65312 0.74 P-03-01 783.458
2447893.155 309672.589 746.48912 0.73 P-03-01 783.458
2447893.155 309672.589 746.3284 0.66 P-03-01 783.458
2447893.155 309672.589 746.13488 0.74 P-03-01 783.458
2447893.155 309672.589 745.97088 0.72 P-03-01 783.458
2447893.155 309672.589 745.83968 0.71 P-03-01 783.458
2447873.211 309600.034 781.991 0.85 P-03-02 781.991
2447873.211 309600.034 781.81716 1.14 P-03-02 781.991
2447873.211 309600.034 781.60396 0.91 P-03-02 781.991
2447873.211 309600.034 781.41044 0.87 P-03-02 781.991
2447873.211 309600.034 781.22348 0.84 P-03-02 781.991
2447873.211 309600.034 781.00044 0.73 P-03-02 781.991
2447873.211 309600.034 780.80692 0.79 P-03-02 781.991
2447873.211 309600.034 780.61668 0.65 P-03-02 781.991
2447873.211 309600.034 780.41332 0.82 P-03-02 781.991
2447873.211 309600.034 780.16404 0.8 P-03-02 781.991
2447873.211 309600.034 779.94428 0.83 P-03-02 781.991
2447873.211 309600.034 779.81308 0.73 P-03-02 781.991
2447873.211 309600.034 779.59332 0.64 P-03-02 781.991
2447873.211 309600.034 779.42604 0.67 P-03-02 781.991
2447873.211 309600.034 779.2358 0.81 P-03-02 781.991
2447873.211 309600.034 779.0226 0.72 P-03-02 781.991
2447873.211 309600.034 778.8258 0.75 P-03-02 781.991
2447873.211 309600.034 778.5634 0.69 P-03-02 781.991
2447873.211 309600.034 778.34036 0.63 P-03-02 781.991
2447873.211 309600.034 778.11404 0.68 P-03-02 781.991
2447873.211 309600.034 777.9074 0.63 P-03-02 781.991
2447873.211 309600.034 777.74668 0.78 P-03-02 781.991
2447873.211 309600.034 777.6122 0.74 P-03-02 781.991
2447873.211 309600.034 777.47116 0.71 P-03-02 781.991
2447873.211 309600.034 777.33012 0.74 P-03-02 781.991
2447873.211 309600.034 777.16284 0.86 P-03-02 781.991
2447873.211 309600.034 777.01524 0.73 P-03-02 781.991
2447873.211 309600.034 776.87092 0.84 P-03-02 781.991
2447873.211 309600.034 776.7266 0.72 P-03-02 781.991
2447873.211 309600.034 776.579 0.72 P-03-02 781.991
2447873.211 309600.034 776.40188 0.68 P-03-02 781.991
2447873.211 309600.034 776.2674 0.66 P-03-02 781.991
2447873.211 309600.034 776.09356 0.64 P-03-02 781.991
2447873.211 309600.034 775.92628 0.78 P-03-02 781.991
2447873.211 309600.034 775.76228 0.65 P-03-02 781.991
2447873.211 309600.034 775.59828 0.73 P-03-02 781.991
2447873.211 309600.034 775.3982 0.78 P-03-02 781.991
2447873.211 309600.034 775.22436 0.84 P-03-02 781.991
2447873.211 309600.034 775.05052 0.7 P-03-02 781.991
2447873.211 309600.034 774.8734 0.84 P-03-02 781.991
2447873.211 309600.034 774.66348 0.79 P-03-02 781.991
2447873.211 309600.034 774.48964 0.76 P-03-02 781.991
2447873.211 309600.034 774.3158 0.71 P-03-02 781.991
2447873.211 309600.034 774.1354 0.75 P-03-02 781.991
2447873.211 309600.034 773.91892 0.91 P-03-02 781.991
2447873.211 309600.034 773.74508 1 P-03-02 781.991
2447873.211 309600.034 773.56468 0.93 P-03-02 781.991
2447873.211 309600.034 773.38428 0.84 P-03-02 781.991
2447873.211 309600.034 773.16452 0.85 P-03-02 781.991
2447873.211 309600.034 773.0202 0.88 P-03-02 781.991
2447873.211 309600.034 772.81684 0.8 P-03-02 781.991
2447873.211 309600.034 772.64956 0.96 P-03-02 781.991
2447873.211 309600.034 772.48228 0.86 P-03-02 781.991
2447873.211 309600.034 772.27236 0.81 P-03-02 781.991
2447873.211 309600.034 772.09524 0.77 P-03-02 781.991
2447873.211 309600.034 771.91156 0.95 P-03-02 781.991
2447873.211 309600.034 771.69508 0.86 P-03-02 781.991
2447873.211 309600.034 771.51468 0.97 P-03-02 781.991
2447873.211 309600.034 771.33428 0.95 P-03-02 781.991
2447873.211 309600.034 771.1506 0.84 P-03-02 781.991
2447873.211 309600.034 770.9538 0.81 P-03-02 781.991
2447873.211 309600.034 770.79308 0.68 P-03-02 781.991
2447873.211 309600.034 770.63236 0.65 P-03-02 781.991
2447873.211 309600.034 770.46508 0.66 P-03-02 781.991
2447873.211 309600.034 770.27156 0.78 P-03-02 781.991
2447873.211 309600.034 770.10756 0.6 P-03-02 781.991
2447873.211 309600.034 769.94356 0.72 P-03-02 781.991
2447873.211 309600.034 769.79924 0.82 P-03-02 781.991
2447873.211 309600.034 769.6582 0.65 P-03-02 781.991
2447873.211 309600.034 769.5106 0.76 P-03-02 781.991
2447873.211 309600.034 769.32692 0.75 P-03-02 781.991
2447873.211 309600.034 769.16948 0.75 P-03-02 781.991
2447873.211 309600.034 769.00876 0.76 P-03-02 781.991
2447873.211 309600.034 768.84804 0.81 P-03-02 781.991
2447873.211 309600.034 768.68404 0.78 P-03-02 781.991
2447873.211 309600.034 768.4938 0.91 P-03-02 781.991
2447873.211 309600.034 768.33308 0.81 P-03-02 781.991
2447873.211 309600.034 768.16908 0.69 P-03-02 781.991
2447873.211 309600.034 768.00508 0.97 P-03-02 781.991
2447873.211 309600.034 767.80828 0.88 P-03-02 781.991
2447873.211 309600.034 767.641 0.84 P-03-02 781.991
2447873.211 309600.034 767.48028 0.96 P-03-02 781.991
2447873.211 309600.034 767.31628 0.9 P-03-02 781.991
2447873.211 309600.034 767.11948 0.78 P-03-02 781.991
2447873.211 309600.034 766.95548 0.92 P-03-02 781.991
2447873.211 309600.034 766.7882 0.99 P-03-02 781.991
2447873.211 309600.034 766.61764 0.72 P-03-02 781.991
2447873.211 309600.034 766.46348 0.78 P-03-02 781.991
2447873.211 309600.034 766.28308 0.72 P-03-02 781.991
2447873.211 309600.034 766.12564 0.74 P-03-02 781.991
```

```
2447873.211 309600.034 765.96492 0.96 P-03-02 781.991
2447873.211 309600.034 765.77468 0.72 P-03-02 781.991
2447873.211 309600.034 765.61396 0.87 P-03-02 781.991
2447873.211 309600.034 765.45652 0.95 P-03-02 781.991
2447873.211 309600.034 765.30236 0.7 P-03-02 781.991
2447873.211 309600.034 765.10556 0.61 P-03-02 781.991
2447873.211 309600.034 764.94812 0.81 P-03-02 781.991
2447873.211 309600.034 764.7874 0.71 P-03-02 781.991
2447873.211 309600.034 764.6234 0.77 P-03-02 781.991
2447873.211 309600.034 764.42988 0.92 P-03-02 781.991
2447873.211 309600.034 764.2626 1 P-03-02 781.991
2447873.211 309600.034 764.08876 1.15 P-03-02 781.991
2447873.211 309600.034 763.9182 1.35 P-03-02 781.991
2447873.211 309600.034 763.71484 1.34 P-03-02 781.991
2447873.211 309600.034 763.54428 1.56 P-03-02 781.991
2447873.211 309600.034 763.37044 1.35 P-03-02 781.991
2447873.211 309600.034 763.1966 1.38 P-03-02 781.991
2447873.211 309600.034 762.9834 1.41 P-03-02 781.991
2447873.211 309600.034 762.82268 1.36 P-03-02 781.991
2447873.211 309600.034 762.62588 1.41 P-03-02 781.991
2447873.211 309600.034 762.4586 1.52 P-03-02 781.991
2447873.211 309600.034 762.29132 1.27 P-03-02 781.991
2447873.211 309600.034 762.12076 1.54 P-03-02 781.991
2447873.211 309600.034 761.94692 1.19 P-03-02 781.991
2447873.211 309600.034 761.74356 0.63 P-03-02 781.991
2447873.211 309600.034 761.56972 0.7 P-03-02 781.991
2447873.211 309600.034 761.39588 0.72 P-03-02 781.991
2447873.211 309600.034 761.18924 0.4 P-03-02 781.991
2447873.211 309600.034 761.0154 0.5 P-03-02 781.991
2447873.211 309600.034 760.84156 0.58 P-03-02 781.991
2447873.211 309600.034 760.66444 0.58 P-03-02 781.991
2447873.211 309600.034 760.4578 0.5 P-03-02 781.991
2447873.211 309600.034 760.28396 0.64 P-03-02 781.991
2447873.211 309600.034 760.10684 0.72 P-03-02 781.991
2447873.211 309600.034 759.9166 0.64 P-03-02 781.991
2447873.211 309600.034 759.7526 0.55 P-03-02 781.991
2447873.211 309600.034 759.5886 0.45 P-03-02 781.991
2447873.211 309600.034 759.39508 0.71 P-03-02 781.991
2447873.211 309600.034 759.2278 0.62 P-03-02 781.991
2447873.211 309600.034 759.05068 0.53 P-03-02 781.991
2447873.211 309600.034 758.88012 0.5 P-03-02 781.991
2447873.211 309600.034 758.70628 0.72 P-03-02 781.991
2447873.211 309600.034 758.49636 0.71 P-03-02 781.991
2447873.211 309600.034 758.31924 0.91 P-03-02 781.991
2447873.211 309600.034 758.1454 0.91 P-03-02 781.991
2447873.211 309600.034 757.97156 0.88 P-03-02 781.991
2447873.211 309600.034 757.75836 1.22 P-03-02 781.991
2447873.211 309600.034 757.5878 1.11 P-03-02 781.991
2447873.211 309600.034 757.41068 0.74 P-03-02 781.991
2447873.211 309600.034 757.23356 0.99 P-03-02 781.991
2447873.211 309600.034 757.02036 0.97 P-03-02 781.991
2447873.211 309600.034 756.84652 0.9 P-03-02 781.991
2447873.211 309600.034 756.65628 0.86 P-03-02 781.991
2447873.211 309600.034 756.46276 0.74 P-03-02 781.991
2447873.211 309600.034 756.29548 0.83 P-03-02 781.991
2447873.211 309600.034 756.1282 0.81 P-03-02 781.991
2447873.211 309600.034 755.95436 0.83 P-03-02 781.991
2447873.211 309600.034 755.74772 1.01 P-03-02 781.991
2447873.211 309600.034 755.56732 0.89 P-03-02 781.991
2447873.211 309600.034 755.39676 0.68 P-03-02 781.991
2447873.211 309600.034 755.21964 1.08 P-03-02 781.991
2447873.211 309600.034 755.00644 0.77 P-03-02 781.991
2447873.211 309600.034 754.82932 1 P-03-02 781.991
2447873.211 309600.034 754.65548 0.67 P-03-02 781.991
2447873.211 309600.034 754.47508 0.65 P-03-02 781.991
2447873.211 309600.034 754.26188 0.72 P-03-02 781.991
2447873.211 309600.034 754.09132 0.94 P-03-02 781.991
2447873.211 309600.034 753.91092 0.64 P-03-02 781.991
2447873.211 309600.034 753.701 0.74 P-03-02 781.991
2447873.211 309600.034 753.54684 0.75 P-03-02 781.991
2447873.211 309600.034 753.35004 0.74 P-03-02 781.991
2447873.211 309600.034 753.18276 0.81 P-03-02 781.991
2447873.211 309600.034 753.01548 0.78 P-03-02 781.991
2447873.211 309600.034 752.84164 0.76 P-03-02 781.991
2447873.211 309600.034 752.635 0.68 P-03-02 781.991
2447873.211 309600.034 752.4218 0.49 P-03-02 781.991
2447873.211 309600.034 752.25124 0.52 P-03-02 781.991
2447873.211 309600.034 752.0774 0.54 P-03-02 781.991
2447873.211 309600.034 751.90028 0.48 P-03-02 781.991
2447873.211 309600.034 751.71988 0.6 P-03-02 781.991
2447873.211 309600.034 751.50996 0.48 P-03-02 781.991
2447873.211 309600.034 751.3394 0.45 P-03-02 781.991
2447873.211 309600.034 751.1754 0.66 P-03-02 781.991
2447873.211 309600.034 751.00812 0.7 P-03-02 781.991
2447873.211 309600.034 750.81132 0.67 P-03-02 781.991
2447873.211 309600.034 750.64732 0.76 P-03-02 781.991
2447873.211 309600.034 750.48988 0.74 P-03-02 781.991
2447873.211 309600.034 750.35212 0.59 P-03-02 781.991
2447873.211 309600.034 750.19796 0.79 P-03-02 781.991
2447873.211 309600.034 750.01428 0.72 P-03-02 781.991
2447873.211 309600.034 749.86012 0.63 P-03-02 781.991
2447873.211 309600.034 749.6994 0.6 P-03-02 781.991
2447873.211 309600.034 749.52884 0.58 P-03-02 781.991
2447873.211 309600.034 749.36484 0.56 P-03-02 781.991
2447873.211 309600.034 749.16476 0.66 P-03-02 781.991
2447873.211 309600.034 749.00404 0.43 P-03-02 781.991
2447873.211 309600.034 748.83676 0.57 P-03-02 781.991
2447873.211 309600.034 748.65964 0.44 P-03-02 781.991
2447873.211 309600.034 748.45628 0.5 P-03-02 781.991
2447873.211 309600.034 748.29556 0.63 P-03-02 781.991
2447873.211 309600.034 748.13156 0.7 P-03-02 781.991
2447873.211 309600.034 747.96756 0.72 P-03-02 781.991
```

```
2447873.211 309600.034 747.77076 0.4 P-03-02 781.991
2447873.211 309600.034 747.60676 0.5 P-03-02 781.991
2447873.211 309600.034 747.43948 0.58 P-03-02 781.991
2447873.211 309600.034 747.29516 0.58 P-03-02 781.991
2447873.211 309600.034 747.08196 0.72 P-03-02 781.991
2447873.211 309600.034 746.9278 0.56 P-03-02 781.991
2447873.211 309600.034 746.74412 0.64 P-03-02 781.991
2447873.211 309600.034 746.58996 0.55 P-03-02 781.991
2447873.211 309600.034 746.42596 0.45 P-03-02 781.991
2447873.211 309600.034 746.22916 0.71 P-03-02 781.991
2447873.211 309600.034 746.06188 0.62 P-03-02 781.991
2447873.211 309600.034 745.90116 0.52 P-03-02 781.991
2447873.211 309600.034 745.73388 0.63 P-03-02 781.991
2447873.211 309600.034 745.56332 0.58 P-03-02 781.991
2447873.211 309600.034 745.35668 0.54 P-03-02 781.991
2447873.211 309600.034 745.17956 0.5 P-03-02 781.991
2447873.211 309600.034 745.00572 0.56 P-03-02 781.991
2447873.211 309600.034 744.83516 0.61 P-03-02 781.991
2447873.211 309600.034 744.62852 0.66 P-03-02 781.991
2447873.211 309600.034 744.45796 0.58 P-03-02 781.991
2447873.211 309600.034 744.28084 0.76 P-03-02 781.991
2447873.211 309600.034 744.08076 0.56 P-03-02 781.991
2447873.211 309600.034 743.91348 0.49 P-03-02 781.991
2447873.211 309600.034 743.77572 0.63 P-03-02 781.991
2447996.487 309594.067 782.204 0.59 P-03-03 782.204
2447996.487 309594.067 782.1712 4.78 P-03-03 782.204
2447996.487 309594.067 782.01704 2.92 P-03-03 782.204
2447996.487 309594.067 781.83664 0.95 P-03-03 782.204
2447996.487 309594.067 781.69232 1.04 P-03-03 782.204
2447996.487 309594.067 781.49552 0.92 P-03-03 782.204
2447996.487 309594.067 781.31184 0.94 P-03-03 782.204
2447996.487 309594.067 781.2364 0.81 P-03-03 782.204
2447996.487 309594.067 781.00024 1.03 P-03-03 782.204
2447996.487 309594.067 780.80672 0.95 P-03-03 782.204
2447996.487 309594.067 780.6132 0.91 P-03-03 782.204
2447996.487 309594.067 780.41968 0.77 P-03-03 782.204
2447996.487 309594.067 780.19008 0.78 P-03-03 782.204
2447996.487 309594.067 779.99 0.79 P-03-03 782.204
2447996.487 309594.067 779.7932 0.79 P-03-03 782.204
2447996.487 309594.067 779.57016 0.82 P-03-03 782.204
2447996.487 309594.067 779.37336 0.79 P-03-03 782.204
2447996.487 309594.067 779.1864 0.85 P-03-03 782.204
2447996.487 309594.067 778.9732 0.77 P-03-03 782.204
2447996.487 309594.067 778.78296 0.76 P-03-03 782.204
2447996.487 309594.067 778.59272 0.74 P-03-03 782.204
2447996.487 309594.067 778.40248 0.78 P-03-03 782.204
2447996.487 309594.067 778.17616 0.78 P-03-03 782.204
2447996.487 309594.067 777.98592 0.85 P-03-03 782.204
2447996.487 309594.067 777.7924 0.82 P-03-03 782.204
2447996.487 309594.067 777.60216 0.76 P-03-03 782.204
2447996.487 309594.067 777.36928 0.82 P-03-03 782.204
2447996.487 309594.067 777.17576 0.83 P-03-03 782.204
2447996.487 309594.067 776.97896 0.83 P-03-03 782.204
2447996.487 309594.067 776.78544 0.89 P-03-03 782.204
2447996.487 309594.067 776.55256 0.63 P-03-03 782.204
2447996.487 309594.067 776.39184 0.93 P-03-03 782.204
2447996.487 309594.067 776.218 0.94 P-03-03 782.204
2447996.487 309594.067 776.04416 0.71 P-03-03 782.204
2447996.487 309594.067 775.83424 0.91 P-03-03 782.204
2447996.487 309594.067 775.63744 0.85 P-03-03 782.204
2447996.487 309594.067 775.4472 0.94 P-03-03 782.204
2447996.487 309594.067 775.2176 0.95 P-03-03 782.204
2447996.487 309594.067 775.0208 0.86 P-03-03 782.204
2447996.487 309594.067 774.83056 0.88 P-03-03 782.204
2447996.487 309594.067 774.63376 0.8 P-03-03 782.204
2447996.487 309594.067 774.39432 0.77 P-03-03 782.204
2447996.487 309594.067 774.19752 0.82 P-03-03 782.204
2447996.487 309594.067 774.004 0.82 P-03-03 782.204
2447996.487 309594.067 773.8072 0.85 P-03-03 782.204
2447996.487 309594.067 773.6104 0.79 P-03-03 782.204
2447996.487 309594.067 773.4136 0.86 P-03-03 782.204
2447996.487 309594.067 773.27584 0.94 P-03-03 782.204
2447996.487 309594.067 773.08888 0.92 P-03-03 782.204
2447996.487 309594.067 772.90848 0.86 P-03-03 782.204
2447996.487 309594.067 772.68544 0.87 P-03-03 782.204
2447996.487 309594.067 772.48864 0.8 P-03-03 782.204
2447996.487 309594.067 772.2984 0.81 P-03-03 782.204
2447996.487 309594.067 772.1016 0.76 P-03-03 782.204
2447996.487 309594.067 771.86872 0.82 P-03-03 782.204
2447996.487 309594.067 771.6752 0.87 P-03-03 782.204
2447996.487 309594.067 771.4784 0.86 P-03-03 782.204
2447996.487 309594.067 771.24224 0.82 P-03-03 782.204
2447996.487 309594.067 771.04216 1.24 P-03-03 782.204
2447996.487 309594.067 770.84864 1.1 P-03-03 782.204
2447996.487 309594.067 770.64528 0.7 P-03-03 782.204
2447996.487 309594.067 770.45176 0.71 P-03-03 782.204
2447996.487 309594.067 770.29432 0.78 P-03-03 782.204
2447996.487 309594.067 770.11392 0.84 P-03-03 782.204
2447996.487 309594.067 769.9204 0.8 P-03-03 782.204
2447996.487 309594.067 769.70064 0.77 P-03-03 782.204
2447996.487 309594.067 769.5268 0.77 P-03-03 782.204
2447996.487 309594.067 769.34312 0.77 P-03-03 782.204
2447996.487 309594.067 769.15288 0.59 P-03-03 782.204
2447996.487 309594.067 768.92984 0.59 P-03-03 782.204
2447996.487 309594.067 768.74944 0.55 P-03-03 782.204
2447996.487 309594.067 768.56248 0.56 P-03-03 782.204
2447996.487 309594.067 768.38208 0.65 P-03-03 782.204
2447996.487 309594.067 768.16232 0.62 P-03-03 782.204
2447996.487 309594.067 767.97864 0.58 P-03-03 782.204
2447996.487 309594.067 767.79168 0.58 P-03-03 782.204
2447996.487 309594.067 767.60472 0.52 P-03-03 782.204
2447996.487 309594.067 767.39152 0.45 P-03-03 782.204
```

2447996.487 309594.067 767.24392 0.56 P-03-03 782.204
2447996.487 309594.067 767.10944 0.43 P-03-03 782.204
2448002.862 309480.231 783.002 0.79 P-03-04 783.002
2448002.862 309480.231 782.8708 0.72 P-03-04 783.002
2448002.862 309480.231 782.7232 0.73 P-03-04 783.002
2448002.862 309480.231 782.56576 0.77 P-03-04 783.002
2448002.862 309480.231 782.35584 0.79 P-03-04 783.002
2448002.862 309480.231 782.18856 0.69 P-03-04 783.002
2448002.862 309480.231 781.97536 0.76 P-03-04 783.002
2448002.862 309480.231 781.79496 0.81 P-03-04 783.002
2448002.862 309480.231 781.61784 0.77 P-03-04 783.002
2448002.862 309480.231 781.444 0.73 P-03-04 783.002
2448002.862 309480.231 781.22752 0.71 P-03-04 783.002
2448002.862 309480.231 781.04712 0.71 P-03-04 783.002
2448002.862 309480.231 780.87 0.8 P-03-04 783.002
2448002.862 309480.231 780.68632 0.83 P-03-04 783.002
2448002.862 309480.231 780.50264 0.8 P-03-04 783.002
2448002.862 309480.231 780.35504 0.6 P-03-04 783.002
2448002.862 309480.231 780.21728 0.73 P-03-04 783.002
2448002.862 309480.231 780.03688 0.78 P-03-04 783.002
2448002.862 309480.231 779.86632 0.86 P-03-04 783.002
2448002.862 309480.231 779.65312 0.83 P-03-04 783.002
2448002.862 309480.231 779.476 0.82 P-03-04 783.002
2448002.862 309480.231 779.29232 0.75 P-03-04 783.002
2448002.862 309480.231 779.10864 0.85 P-03-04 783.002
2448002.862 309480.231 778.89216 0.76 P-03-04 783.002
2448002.862 309480.231 778.71176 0.75 P-03-04 783.002
2448002.862 309480.231 778.52152 0.72 P-03-04 783.002
2448002.862 309480.231 778.33456 0.71 P-03-04 783.002
2448002.862 309480.231 778.1148 0.78 P-03-04 783.002
2448002.862 309480.231 777.92784 0.76 P-03-04 783.002
2448002.862 309480.231 777.7376 0.66 P-03-04 783.002
2448002.862 309480.231 777.55064 0.86 P-03-04 783.002
2448002.862 309480.231 777.41616 0.77 P-03-04 783.002
2448002.862 309480.231 777.21936 0.67 P-03-04 783.002
2448002.862 309480.231 777.02912 0.73 P-03-04 783.002
2448002.862 309480.231 776.81592 0.72 P-03-04 783.002
2448002.862 309480.231 776.64536 0.75 P-03-04 783.002
2448002.862 309480.231 776.47808 0.77 P-03-04 783.002
2448002.862 309480.231 776.30096 0.88 P-03-04 783.002
2448002.862 309480.231 776.12712 0.92 P-03-04 783.002
2448002.862 309480.231 775.9172 0.75 P-03-04 783.002
2448002.862 309480.231 775.74664 0.75 P-03-04 783.002
2448002.862 309480.231 775.56952 0.77 P-03-04 783.002
2448002.862 309480.231 775.39568 0.76 P-03-04 783.002
2448002.862 309480.231 775.18248 0.49 P-03-04 783.002
2448002.862 309480.231 775.11032 0.71 P-03-04 783.002
2448002.862 309480.231 774.9004 0.62 P-03-04 783.002
2448002.862 309480.231 774.72328 0.5 P-03-04 783.002
2448002.862 309480.231 774.54616 0.49 P-03-04 783.002
2448002.862 309480.231 774.36248 0.25 P-03-04 783.002
2448002.862 309480.231 774.1788 0.06 P-03-04 783.002
2448002.862 309480.231 773.9984 0.25 P-03-04 783.002
2448002.862 309480.231 773.81472 1.25 P-03-04 783.002
2448002.862 309480.231 773.6048 1.06 P-03-04 783.002
2448002.862 309480.231 773.4244 0.99 P-03-04 783.002
2448002.862 309480.231 773.24072 1.07 P-03-04 783.002
2448002.862 309480.231 773.05704 0.98 P-03-04 783.002
2448002.862 309480.231 772.834 1.11 P-03-04 783.002
2448002.862 309480.231 772.64704 1.23 P-03-04 783.002
2448002.862 309480.231 772.46008 1.18 P-03-04 783.002
2448002.862 309480.231 772.2764 1.21 P-03-04 783.002
2448002.862 309480.231 772.05008 1.07 P-03-04 783.002
2448002.862 309480.231 771.85984 0.77 P-03-04 783.002
2448002.862 309480.231 771.67288 1.2 P-03-04 783.002
2448002.862 309480.231 771.48592 1.27 P-03-04 783.002
2448002.862 309480.231 771.2596 1.23 P-03-04 783.002
2448002.862 309480.231 771.06608 1.26 P-03-04 783.002
2448002.862 309480.231 770.91848 1.32 P-03-04 783.002
2448002.862 309480.231 770.78728 1.04 P-03-04 783.002
2448002.862 309480.231 770.61016 1.35 P-03-04 783.002
2448002.862 309480.231 770.39696 1.17 P-03-04 783.002
2448002.862 309480.231 770.2264 1.25 P-03-04 783.002
2448002.862 309480.231 770.03616 1.16 P-03-04 783.002
2448002.862 309480.231 769.81312 0.68 P-03-04 783.002
2448002.862 309480.231 769.62288 0.59 P-03-04 783.002
2448002.862 309480.231 769.4392 0.59 P-03-04 783.002
2448002.862 309480.231 769.24896 0.83 P-03-04 783.002
2448002.862 309480.231 769.02264 0.95 P-03-04 783.002
2448002.862 309480.231 768.8324 0.96 P-03-04 783.002
2448002.862 309480.231 768.64216 1.17 P-03-04 783.002
2448002.862 309480.231 768.44864 1.04 P-03-04 783.002
2448002.862 309480.231 768.26496 0.61 P-03-04 783.002
2448002.862 309480.231 768.11408 0.63 P-03-04 783.002
2448002.862 309480.231 767.95664 0.82 P-03-04 783.002
2448002.862 309480.231 767.8156 0.46 P-03-04 783.002
2448002.862 309480.231 767.67128 0.37 P-03-04 783.002
2448002.862 309480.231 767.51712 0.27 P-03-04 783.002
2448002.862 309480.231 767.33016 0.41 P-03-04 783.002
2448002.862 309480.231 767.176 0.16 P-03-04 783.002
2448002.862 309480.231 767.07104 0.14 P-03-04 783.002
2448002.862 309480.231 766.90048 0.61 P-03-04 783.002
2448002.862 309480.231 766.73976 0.55 P-03-04 783.002
2448002.862 309480.231 766.5692 0.5 P-03-04 783.002
2448002.862 309480.231 766.40192 0.35 P-03-04 783.002
2448002.862 309480.231 766.19528 0.83 P-03-04 783.002
2448002.862 309480.231 766.028 0.72 P-03-04 783.002
2448002.862 309480.231 765.85744 1.5 P-03-04 783.002
2448002.862 309480.231 765.69016 1.41 P-03-04 783.002
2448002.862 309480.231 765.48024 3.59 P-03-04 783.002
2448002.862 309480.231 765.31296 3.4 P-03-04 783.002
2448002.862 309480.231 765.1096 3.57 P-03-04 783.002

```
2448002.862 309480.231 764.93248 3.19 P-03-04 783.002
2448002.862 309480.231 764.76848 3.56 P-03-04 783.002
2448002.862 309480.231 764.6012 2.62 P-03-04 783.002
2448002.862 309480.231 764.46016 3.33 P-03-04 783.002
2448002.862 309480.231 764.31584 3.56 P-03-04 783.002
2448002.862 309480.231 764.12888 2.5 P-03-04 783.002
2448002.862 309480.231 763.978 1.18 P-03-04 783.002
2448002.862 309480.231 763.82384 0.66 P-03-04 783.002
2448002.862 309480.231 763.63032 0.97 P-03-04 783.002
2448002.862 309480.231 763.47944 1.07 P-03-04 783.002
2448002.862 309480.231 763.32856 1.18 P-03-04 783.002
2448002.862 309480.231 763.17768 2.59 P-03-04 783.002
2448002.862 309480.231 763.03664 2.36 P-03-04 783.002
2448002.862 309480.231 762.98416 2.55 P-03-04 783.002
2448117.2 309584.172 783.047 0.52 P-03-05 783.047
2448117.2 309584.172 782.87316 1.18 P-03-05 783.047
2448117.2 309584.172 782.70916 3.26 P-03-05 783.047
2448117.2 309584.172 782.50252 1.01 P-03-05 783.047
2448117.2 309584.172 782.24996 0.86 P-03-05 783.047
2448117.2 309584.172 782.0302 0.82 P-03-05 783.047
2448117.2 309584.172 781.87604 0.83 P-03-05 783.047
2448117.2 309584.172 781.7022 0.82 P-03-05 783.047
2448117.2 309584.172 781.54804 0.74 P-03-05 783.047
2448117.2 309584.172 781.39388 0.77 P-03-05 783.047
2448117.2 309584.172 781.20692 0.73 P-03-05 783.047
2448117.2 309584.172 781.0462 0.68 P-03-05 783.047
2448117.2 309584.172 780.88548 0.75 P-03-05 783.047
2448117.2 309584.172 780.72476 0.67 P-03-05 783.047
2448117.2 309584.172 780.56076 0.71 P-03-05 783.047
2448117.2 309584.172 780.42628 0.52 P-03-05 783.047
2448117.2 309584.172 780.2754 0.68 P-03-05 783.047
2448117.2 309584.172 780.12124 0.66 P-03-05 783.047
2448117.2 309584.172 779.9638 0.64 P-03-05 783.047
2448117.2 309584.172 779.77684 0.56 P-03-05 783.047
2448117.2 309584.172 779.61284 0.67 P-03-05 783.047
2448117.2 309584.172 779.44556 0.71 P-03-05 783.047
2448117.2 309584.172 779.275 0.67 P-03-05 783.047
2448117.2 309584.172 779.08148 0.7 P-03-05 783.047
2448117.2 309584.172 778.91092 0.74 P-03-05 783.047
2448117.2 309584.172 778.74364 0.61 P-03-05 783.047
2448117.2 309584.172 778.54028 0.65 P-03-05 783.047
2448117.2 309584.172 778.36972 0.71 P-03-05 783.047
2448117.2 309584.172 778.19916 0.76 P-03-05 783.047
2448117.2 309584.172 778.0286 0.59 P-03-05 783.047
2448117.2 309584.172 777.85476 0.69 P-03-05 783.047
2448117.2 309584.172 777.65468 0.61 P-03-05 783.047
2448117.2 309584.172 777.48084 0.61 P-03-05 783.047
2448117.2 309584.172 777.32012 0.75 P-03-05 783.047
2448117.2 309584.172 777.1594 0.65 P-03-05 783.047
2448117.2 309584.172 776.99868 0.76 P-03-05 783.047
2448117.2 309584.172 776.80516 0.71 P-03-05 783.047
2448117.2 309584.172 776.6346 0.67 P-03-05 783.047
2448117.2 309584.172 776.45748 0.67 P-03-05 783.047
2448117.2 309584.172 776.28364 0.61 P-03-05 783.047
2448117.2 309584.172 776.07044 0.63 P-03-05 783.047
2448117.2 309584.172 775.8966 0.64 P-03-05 783.047
2448117.2 309584.172 775.72276 0.74 P-03-05 783.047
2448117.2 309584.172 775.54564 0.75 P-03-05 783.047
2448117.2 309584.172 775.33244 0.65 P-03-05 783.047
2448117.2 309584.172 775.15532 0.73 P-03-05 783.047
2448117.2 309584.172 774.9782 0.7 P-03-05 783.047
2448117.2 309584.172 774.76828 0.63 P-03-05 783.047
2448117.2 309584.172 774.59116 0.4 P-03-05 783.047
2448117.2 309584.172 774.41076 0.76 P-03-05 783.047
2448117.2 309584.172 774.23364 0.71 P-03-05 783.047
2448117.2 309584.172 774.0434 0.65 P-03-05 783.047
2448117.2 309584.172 773.83676 0.75 P-03-05 783.047
2448117.2 309584.172 773.67276 0.69 P-03-05 783.047
2448117.2 309584.172 773.49564 0.57 P-03-05 783.047
2448117.2 309584.172 773.31196 0.56 P-03-05 783.047
2448117.2 309584.172 773.09548 0.59 P-03-05 783.047
2448117.2 309584.172 772.91508 0.68 P-03-05 783.047
2448117.2 309584.172 772.7314 0.68 P-03-05 783.047
2448117.2 309584.172 772.54772 0.63 P-03-05 783.047
2448117.2 309584.172 772.33124 0.7 P-03-05 783.047
2448117.2 309584.172 772.14756 0.68 P-03-05 783.047
2448117.2 309584.172 771.9606 0.7 P-03-05 783.047
2448117.2 309584.172 771.7802 0.64 P-03-05 783.047
2448117.2 309584.172 771.56044 0.64 P-03-05 783.047
2448117.2 309584.172 771.37348 0.66 P-03-05 783.047
2448117.2 309584.172 771.1898 0.7 P-03-05 783.047
2448117.2 309584.172 771.02908 0.73 P-03-05 783.047
2448117.2 309584.172 770.81916 0.67 P-03-05 783.047
2448117.2 309584.172 770.64204 0.8 P-03-05 783.047
2448117.2 309584.172 770.46164 0.73 P-03-05 783.047
2448117.2 309584.172 770.27468 0.79 P-03-05 783.047
2448117.2 309584.172 770.08772 0.7 P-03-05 783.047
2448117.2 309584.172 769.8614 0.76 P-03-05 783.047
2448117.2 309584.172 769.67772 0.81 P-03-05 783.047
2448117.2 309584.172 769.48748 0.61 P-03-05 783.047
2448117.2 309584.172 769.26444 0.82 P-03-05 783.047
2448117.2 309584.172 769.07748 0.82 P-03-05 783.047
2448117.2 309584.172 768.89052 0.76 P-03-05 783.047
2448117.2 309584.172 768.70684 0.65 P-03-05 783.047
2448117.2 309584.172 768.4838 0.76 P-03-05 783.047
2448117.2 309584.172 768.29684 0.58 P-03-05 783.047
2448117.2 309584.172 768.1066 0.75 P-03-05 783.047
2448117.2 309584.172 767.94916 0.67 P-03-05 783.047
2448117.2 309584.172 767.74252 0.68 P-03-05 783.047
2448117.2 309584.172 767.56868 0.69 P-03-05 783.047
2448117.2 309584.172 767.39484 0.66 P-03-05 783.047
2448117.2 309584.172 767.21444 0.68 P-03-05 783.047
```

```
2448117.2 309584.172 767.03404 0.74 P-03-05 783.047
2448117.2 309584.172 766.84708 0.7 P-03-05 783.047
2448117.2 309584.172 766.62404 0.68 P-03-05 783.047
2448117.2 309584.172 766.44364 0.67 P-03-05 783.047
2448117.2 309584.172 766.25668 0.64 P-03-05 783.047
2448117.2 309584.172 766.06972 0.68 P-03-05 783.047
2448117.2 309584.172 765.84668 0.69 P-03-05 783.047
2448117.2 309584.172 765.65972 0.74 P-03-05 783.047
2448117.2 309584.172 765.47604 0.64 P-03-05 783.047
2448117.2 309584.172 765.28908 0.73 P-03-05 783.047
2448117.2 309584.172 765.06276 0.65 P-03-05 783.047
2448117.2 309584.172 764.87252 0.78 P-03-05 783.047
2448117.2 309584.172 764.63964 0.67 P-03-05 783.047
2448117.2 309584.172 764.4494 0.64 P-03-05 783.047
2448117.2 309584.172 764.28212 0.74 P-03-05 783.047
2448117.2 309584.172 764.12468 1.03 P-03-05 783.047
2448117.2 309584.172 763.93772 1.01 P-03-05 783.047
2448117.2 309584.172 763.74748 0.77 P-03-05 783.047
2448117.2 309584.172 763.55396 0.67 P-03-05 783.047
2448117.2 309584.172 763.38996 0.67 P-03-05 783.047
2448117.2 309584.172 763.23252 0.69 P-03-05 783.047
2448117.2 309584.172 763.06852 0.73 P-03-05 783.047
2448117.2 309584.172 762.88156 0.67 P-03-05 783.047
2448117.2 309584.172 762.85532 0.72 P-03-05 783.047
2448115.471 309507.022 783.391 0.9 P-03-06 783.391
2448115.471 309507.022 783.24996 0.59 P-03-06 783.391
2448115.471 309507.022 783.063 2.2 P-03-06 783.391
2448115.471 309507.022 782.85308 0.98 P-03-06 783.391
2448115.471 309507.022 782.67924 0.75 P-03-06 783.391
2448115.471 309507.022 782.46276 0.63 P-03-06 783.391
2448115.471 309507.022 782.29876 0.62 P-03-06 783.391
2448115.471 309507.022 782.13476 0.61 P-03-06 783.391
2448115.471 309507.022 781.9478 0.66 P-03-06 783.391
2448115.471 309507.022 781.77396 0.75 P-03-06 783.391
2448115.471 309507.022 781.57388 0.69 P-03-06 783.391
2448115.471 309507.022 781.38364 0.7 P-03-06 783.391
2448115.471 309507.022 781.15076 0.58 P-03-06 783.391
2448115.471 309507.022 780.95396 0.77 P-03-06 783.391
2448115.471 309507.022 780.7834 0.85 P-03-06 783.391
2448115.471 309507.022 780.60956 0.84 P-03-06 783.391
2448115.471 309507.022 780.44228 0.66 P-03-06 783.391
2448115.471 309507.022 780.2094 0.78 P-03-06 783.391
2448115.471 309507.022 780.02572 0.68 P-03-06 783.391
2448115.471 309507.022 779.84532 0.85 P-03-06 783.391
2448115.471 309507.022 779.6518 0.85 P-03-06 783.391
2448115.471 309507.022 779.43532 0.89 P-03-06 783.391
2448115.471 309507.022 779.26148 0.77 P-03-06 783.391
2448115.471 309507.022 779.08764 0.86 P-03-06 783.391
2448115.471 309507.022 778.90724 0.75 P-03-06 783.391
2448115.471 309507.022 778.70388 0.72 P-03-06 783.391
2448115.471 309507.022 778.53988 0.95 P-03-06 783.391
2448115.471 309507.022 778.36932 0.79 P-03-06 783.391
2448115.471 309507.022 778.16924 0.8 P-03-06 783.391
2448115.471 309507.022 777.99868 0.82 P-03-06 783.391
2448115.471 309507.022 777.82812 0.82 P-03-06 783.391
2448115.471 309507.022 777.65756 0.83 P-03-06 783.391
2448115.471 309507.022 777.50668 0.8 P-03-06 783.391
2448115.471 309507.022 777.36564 0.7 P-03-06 783.391
2448115.471 309507.022 777.18852 0.79 P-03-06 783.391
2448115.471 309507.022 777.03108 0.91 P-03-06 783.391
2448115.471 309507.022 776.87036 0.85 P-03-06 783.391
2448115.471 309507.022 776.71292 0.71 P-03-06 783.391
2448115.471 309507.022 776.51612 0.83 P-03-06 783.391
2448115.471 309507.022 776.35212 0.62 P-03-06 783.391
2448115.471 309507.022 776.18812 0.83 P-03-06 783.391
2448115.471 309507.022 776.02412 0.7 P-03-06 783.391
2448115.471 309507.022 775.82732 0.84 P-03-06 783.391
2448115.471 309507.022 775.66004 0.71 P-03-06 783.391
2448115.471 309507.022 775.49276 0.75 P-03-06 783.391
2448115.471 309507.022 775.29268 0.7 P-03-06 783.391
2448115.471 309507.022 775.1254 0.77 P-03-06 783.391
2448115.471 309507.022 774.95812 0.57 P-03-06 783.391
2448115.471 309507.022 774.79412 0.61 P-03-06 783.391
2448115.471 309507.022 774.59076 0.5 P-03-06 783.391
2448115.471 309507.022 774.42348 0.44 P-03-06 783.391
2448115.471 309507.022 774.28572 0.72 P-03-06 783.391
2448115.471 309507.022 774.09548 0.76 P-03-06 783.391
2448115.471 309507.022 773.9282 0.79 P-03-06 783.391
2448115.471 309507.022 773.76748 0.66 P-03-06 783.391
2448115.471 309507.022 773.6002 0.55 P-03-06 783.391
2448115.471 309507.022 773.39684 0.51 P-03-06 783.391
2448115.471 309507.022 773.223 0.51 P-03-06 783.391
2448115.471 309507.022 773.05572 0.51 P-03-06 783.391
2448115.471 309507.022 772.84908 0.58 P-03-06 783.391
2448115.471 309507.022 772.67852 0.6 P-03-06 783.391
2448115.471 309507.022 772.50468 0.66 P-03-06 783.391
2448115.471 309507.022 772.33084 0.65 P-03-06 783.391
2448115.471 309507.022 772.157 0.71 P-03-06 783.391
2448115.471 309507.022 771.95036 0.71 P-03-06 783.391
2448115.471 309507.022 771.77652 0.75 P-03-06 783.391
2448115.471 309507.022 771.60268 0.73 P-03-06 783.391
2448115.471 309507.022 771.42884 0.79 P-03-06 783.391
2448115.471 309507.022 771.21892 0.71 P-03-06 783.391
2448115.471 309507.022 771.04508 0.95 P-03-06 783.391
2448115.471 309507.022 770.88108 0.84 P-03-06 783.391
2448115.471 309507.022 770.7138 0.95 P-03-06 783.391
2448115.471 309507.022 770.51044 0.79 P-03-06 783.391
2448115.471 309507.022 770.33988 1.09 P-03-06 783.391
2448115.471 309507.022 770.16276 1.08 P-03-06 783.391
2448115.471 309507.022 769.99548 0.98 P-03-06 783.391
2448115.471 309507.022 769.78556 1.09 P-03-06 783.391
2448115.471 309507.022 769.61172 0.88 P-03-06 783.391
```

```
2448115.471 309507.022 769.43788 0.67 P-03-06 783.391
2448115.471 309507.022 769.26404 0.75 P-03-06 783.391
2448115.471 309507.022 769.05084 1.06 P-03-06 783.391
2448115.471 309507.022 768.87372 1.22 P-03-06 783.391
2448115.471 309507.022 768.69988 1.45 P-03-06 783.391
2448115.471 309507.022 768.48996 1.67 P-03-06 783.391
2448115.471 309507.022 768.31284 1.58 P-03-06 783.391
2448115.471 309507.022 768.139 1.74 P-03-06 783.391
2448115.471 309507.022 767.98484 1.68 P-03-06 783.391
2448115.471 309507.022 767.85036 1.34 P-03-06 783.391
2448115.471 309507.022 767.6962 1.24 P-03-06 783.391
2448115.471 309507.022 767.50924 1.06 P-03-06 783.391
2448115.471 309507.022 767.35508 1.11 P-03-06 783.391
2448115.471 309507.022 767.20092 0.83 P-03-06 783.391
2448115.471 309507.022 767.03692 0.67 P-03-06 783.391
2448115.471 309507.022 766.8434 0.67 P-03-06 783.391
2448115.471 309507.022 766.6794 0.48 P-03-06 783.391
2448115.471 309507.022 766.51212 0.66 P-03-06 783.391
2448115.471 309507.022 766.31532 0.6 P-03-06 783.391
2448115.471 309507.022 766.1546 0.54 P-03-06 783.391
2448115.471 309507.022 765.9906 0.53 P-03-06 783.391
2448115.471 309507.022 765.8266 0.71 P-03-06 783.391
2448115.471 309507.022 765.62652 0.9 P-03-06 783.391
2448115.471 309507.022 765.45924 0.77 P-03-06 783.391
2448115.471 309507.022 765.29524 0.82 P-03-06 783.391
2448115.471 309507.022 765.12796 0.79 P-03-06 783.391
2448115.471 309507.022 764.92788 0.67 P-03-06 783.391
2448115.471 309507.022 764.78684 0.84 P-03-06 783.391
2448115.471 309507.022 764.60972 0.77 P-03-06 783.391
2448115.471 309507.022 764.45556 0.67 P-03-06 783.391
2448115.471 309507.022 764.29812 0.61 P-03-06 783.391
2448115.471 309507.022 764.10788 0.68 P-03-06 783.391
2448115.471 309507.022 763.94388 0.69 P-03-06 783.391
2448115.471 309507.022 763.78316 0.83 P-03-06 783.391
2448115.471 309507.022 763.61588 0.91 P-03-06 783.391
2448115.471 309507.022 763.41252 0.55 P-03-06 783.391
2448115.471 309507.022 763.24852 1.17 P-03-06 783.391
2448115.471 309507.022 763.08124 1.33 P-03-06 783.391
2448115.471 309507.022 762.91068 1.32 P-03-06 783.391
2448115.471 309507.022 762.7434 1.4 P-03-06 783.391
2448115.471 309507.022 762.54332 1.36 P-03-06 783.391
2448115.471 309507.022 762.37932 1.4 P-03-06 783.391
2448115.471 309507.022 762.21204 1.33 P-03-06 783.391
2448115.471 309507.022 762.00868 1.47 P-03-06 783.391
2448115.471 309507.022 761.8414 1.36 P-03-06 783.391
2448115.471 309507.022 761.67084 1.48 P-03-06 783.391
2448115.471 309507.022 761.48388 0.72 P-03-06 783.391
2448115.471 309507.022 761.333 0.7 P-03-06 783.391
2448115.471 309507.022 761.1854 0.9 P-03-06 783.391
2448115.471 309507.022 760.99516 1.24 P-03-06 783.391
2448115.471 309507.022 760.83444 1.15 P-03-06 783.391
2448115.471 309507.022 760.67372 1.21 P-03-06 783.391
2448115.471 309507.022 760.50972 1.09 P-03-06 783.391
2448115.471 309507.022 760.31948 1.01 P-03-06 783.391
2448115.471 309507.022 760.16532 1.03 P-03-06 783.391
2448115.471 309507.022 760.0046 1.08 P-03-06 783.391
2448115.471 309507.022 759.9226 1.22 P-03-06 783.391
2448216.544 309655.356 785.438 0.73 P-03-07 785.438
2448216.544 309655.356 785.42816 11.97 P-03-07 785.438
2448216.544 309655.356 785.28384 4.98 P-03-07 785.438
2448216.544 309655.356 785.0772 0.91 P-03-07 785.438
2448216.544 309655.356 784.90664 0.82 P-03-07 785.438
2448216.544 309655.356 784.74264 0.66 P-03-07 785.438
2448216.544 309655.356 784.54584 0.73 P-03-07 785.438
2448216.544 309655.356 784.37856 0.69 P-03-07 785.438
2448216.544 309655.356 784.21128 0.73 P-03-07 785.438
2448216.544 309655.356 784.04072 0.75 P-03-07 785.438
2448216.544 309655.356 783.83736 0.8 P-03-07 785.438
2448216.544 309655.356 783.6668 0.74 P-03-07 785.438
2448216.544 309655.356 783.49624 0.84 P-03-07 785.438
2448216.544 309655.356 783.3224 0.72 P-03-07 785.438
2448216.544 309655.356 783.11576 0.78 P-03-07 785.438
2448216.544 309655.356 782.93864 0.72 P-03-07 785.438
2448216.544 309655.356 782.74184 0.62 P-03-07 785.438
2448216.544 309655.356 782.57456 0.69 P-03-07 785.438
2448216.544 309655.356 782.41056 0.62 P-03-07 785.438
2448216.544 309655.356 782.2072 0.68 P-03-07 785.438
2448216.544 309655.356 782.03008 0.7 P-03-07 785.438
2448216.544 309655.356 781.84968 0.68 P-03-07 785.438
2448216.544 309655.356 781.66928 0.62 P-03-07 785.438
2448216.544 309655.356 781.45936 0.67 P-03-07 785.438
2448216.544 309655.356 781.27896 0.74 P-03-07 785.438
2448216.544 309655.356 781.09856 0.59 P-03-07 785.438
2448216.544 309655.356 780.92144 0.54 P-03-07 785.438
2448216.544 309655.356 780.70496 0.74 P-03-07 785.438
2448216.544 309655.356 780.52456 0.77 P-03-07 785.438
2448216.544 309655.356 780.34744 0.78 P-03-07 785.438
2448216.544 309655.356 780.1408 0.72 P-03-07 785.438
2448216.544 309655.356 779.98992 0.64 P-03-07 785.438
2448216.544 309655.356 779.80952 0.72 P-03-07 785.438
2448216.544 309655.356 779.67176 0.71 P-03-07 785.438
2448216.544 309655.356 779.53072 0.66 P-03-07 785.438
2448216.544 309655.356 779.37328 0.69 P-03-07 785.438
2448216.544 309655.356 779.20272 0.58 P-03-07 785.438
2448216.544 309655.356 779.0256 0.62 P-03-07 785.438
2448216.544 309655.356 778.83864 0.74 P-03-07 785.438
2448216.544 309655.356 778.62544 0.72 P-03-07 785.438
2448216.544 309655.356 778.44504 0.85 P-03-07 785.438
2448216.544 309655.356 778.26136 0.84 P-03-07 785.438
2448216.544 309655.356 778.0744 0.9 P-03-07 785.438
2448216.544 309655.356 777.90056 0.87 P-03-07 785.438
2448216.544 309655.356 777.71688 0.77 P-03-07 785.438
```

```
2448216.544 309655.356 777.52992 0.87 P-03-07 785.438
2448216.544 309655.356 777.34296 0.79 P-03-07 785.438
2448216.544 309655.356 777.14616 0.66 P-03-07 785.438
2448216.544 309655.356 776.97232 0.69 P-03-07 785.438
2448216.544 309655.356 776.79848 0.87 P-03-07 785.438
2448216.544 309655.356 776.64104 0.85 P-03-07 785.438
2448216.544 309655.356 776.50328 0.74 P-03-07 785.438
2448216.544 309655.356 776.33928 0.67 P-03-07 785.438
2448216.544 309655.356 776.20152 0.8 P-03-07 785.438
2448216.544 309655.356 775.9752 0.91 P-03-07 785.438
2448216.544 309655.356 775.7456 0.8 P-03-07 785.438
2448216.544 309655.356 775.59144 0.71 P-03-07 785.438
2448216.544 309655.356 775.40776 0.65 P-03-07 785.438
2448216.544 309655.356 775.18472 0.64 P-03-07 785.438
2448216.544 309655.356 774.9912 0.78 P-03-07 785.438
2448216.544 309655.356 774.80752 0.8 P-03-07 785.438
2448216.544 309655.356 774.65664 0.77 P-03-07 785.438
2448216.544 309655.356 774.46968 0.69 P-03-07 785.438
2448216.544 309655.356 774.27616 0.76 P-03-07 785.438
2448216.544 309655.356 774.03672 0.76 P-03-07 785.438
2448216.544 309655.356 773.83336 0.67 P-03-07 785.438
2448216.544 309655.356 773.63328 0.69 P-03-07 785.438
2448216.544 309655.356 773.39384 0.69 P-03-07 785.438
2448216.544 309655.356 773.25608 0.68 P-03-07 785.438
2448216.544 309655.356 773.03632 0.69 P-03-07 785.438
2448216.544 309655.356 772.892 0.71 P-03-07 785.438
2448216.544 309655.356 772.75424 0.78 P-03-07 785.438
2448216.544 309655.356 772.62632 0.66 P-03-07 785.438
2448235.409 309561.75 784.518 0.17 P-03-08 784.518
2448235.409 309561.75 784.436 7.8 P-03-08 784.518
2448235.409 309561.75 784.26872 0.87 P-03-08 784.518
2448235.409 309561.75 784.2064 0.4 P-03-08 784.518
2448235.409 309561.75 784.02272 0.3 P-03-08 784.518
2448235.409 309561.75 783.88496 0.41 P-03-08 784.518
2448235.409 309561.75 783.7308 0.29 P-03-08 784.518
2448235.409 309561.75 783.55368 0.29 P-03-08 784.518
2448235.409 309561.75 783.3864 0.27 P-03-08 784.518
2448235.409 309561.75 783.2224 0.29 P-03-08 784.518
2448235.409 309561.75 783.0584 0.21 P-03-08 784.518
2448235.409 309561.75 782.8944 0.19 P-03-08 784.518
2448235.409 309561.75 782.6976 0.2 P-03-08 784.518
2448235.409 309561.75 782.53032 0.25 P-03-08 784.518
2448235.409 309561.75 782.39912 0.23 P-03-08 784.518
2448235.409 309561.75 782.24824 0.27 P-03-08 784.518
2448235.409 309561.75 782.0908 0.35 P-03-08 784.518
2448235.409 309561.75 781.93992 0.37 P-03-08 784.518
2448235.409 309561.75 781.73656 0.29 P-03-08 784.518
2448235.409 309561.75 781.61192 0.22 P-03-08 784.518
2448235.409 309561.75 781.39544 0.36 P-03-08 784.518
2448235.409 309561.75 781.23472 0.68 P-03-08 784.518
2448235.409 309561.75 781.12976 1.37 P-03-08 784.518
2448235.409 309561.75 780.95592 0.35 P-03-08 784.518
2448235.409 309561.75 780.78208 0.22 P-03-08 784.518
2448235.409 309561.75 780.57544 0.19 P-03-08 784.518
2448235.409 309561.75 780.39832 0.21 P-03-08 784.518
2448235.409 309561.75 780.22776 0.23 P-03-08 784.518
2448235.409 309561.75 780.04736 0.23 P-03-08 784.518
2448235.409 309561.75 779.83744 0.2 P-03-08 784.518
2448235.409 309561.75 779.66032 0.16 P-03-08 784.518
2448235.409 309561.75 779.4832 0.19 P-03-08 784.518
2448235.409 309561.75 779.30608 0.21 P-03-08 784.518
2448235.409 309561.75 779.09616 0.2 P-03-08 784.518
2448235.409 309561.75 778.95184 0.19 P-03-08 784.518
2448235.409 309561.75 778.778 0.21 P-03-08 784.518
2448235.409 309561.75 778.60416 0.26 P-03-08 784.518
2448235.409 309561.75 778.42704 0.19 P-03-08 784.518
2448235.409 309561.75 778.2204 0.24 P-03-08 784.518
2448235.409 309561.75 778.03672 0.19 P-03-08 784.518
2448235.409 309561.75 777.85304 0.17 P-03-08 784.518
2448235.409 309561.75 777.66608 0.21 P-03-08 784.518
2448235.409 309561.75 777.48568 0.18 P-03-08 784.518
2448235.409 309561.75 777.26264 0.16 P-03-08 784.518
2448235.409 309561.75 777.07568 0.23 P-03-08 784.518
2448235.409 309561.75 776.892 0.19 P-03-08 784.518
2448235.409 309561.75 776.70832 0.19 P-03-08 784.518
2448235.409 309561.75 776.48528 0.15 P-03-08 784.518
2448235.409 309561.75 776.29832 0.23 P-03-08 784.518
2448235.409 309561.75 776.12448 0.17 P-03-08 784.518
2448235.409 309561.75 775.97688 0.19 P-03-08 784.518
2448235.409 309561.75 775.76696 0.2 P-03-08 784.518
2448235.409 309561.75 775.60624 0.25 P-03-08 784.518
2448235.409 309561.75 775.43896 0.2 P-03-08 784.518
2448235.409 309561.75 775.27168 0.21 P-03-08 784.518
2448235.409 309561.75 775.0716 0.2 P-03-08 784.518
2448235.409 309561.75 774.8912 0.2 P-03-08 784.518
2448235.409 309561.75 774.70424 0.16 P-03-08 784.518
2448235.409 309561.75 774.4812 0.19 P-03-08 784.518
2448235.409 309561.75 774.29752 0.2 P-03-08 784.518
2448235.409 309561.75 774.11056 0.21 P-03-08 784.518
2448235.409 309561.75 773.9236 0.24 P-03-08 784.518
2448235.409 309561.75 773.72024 0.17 P-03-08 784.518
2448235.409 309561.75 773.55624 0.21 P-03-08 784.518
2448235.409 309561.75 773.39224 0.22 P-03-08 784.518
2448235.409 309561.75 773.22168 0.2 P-03-08 784.518
2448235.409 309561.75 773.06096 0.16 P-03-08 784.518
2448235.409 309561.75 772.86416 0.2 P-03-08 784.518
2448235.409 309561.75 772.69688 0.19 P-03-08 784.518
2448235.409 309561.75 772.5624 0.18 P-03-08 784.518
2448235.409 309561.75 772.41152 0.17 P-03-08 784.518
2448235.409 309561.75 772.25736 0.19 P-03-08 784.518
2448235.409 309561.75 772.1032 0.17 P-03-08 784.518
2448235.409 309561.75 771.9228 0.23 P-03-08 784.518
```

2448235.409 309561.75 771.7588 0.19 P-03-08 784.518
2448235.409 309561.75 771.5948 0.22 P-03-08 784.518
2448235.409 309561.75 771.43408 0.21 P-03-08 784.518
2448235.409 309561.75 771.24056 0.2 P-03-08 784.518
2448235.409 309561.75 771.07656 0.2 P-03-08 784.518
2448235.409 309561.75 770.90928 0.18 P-03-08 784.518
2448235.409 309561.75 770.74528 0.16 P-03-08 784.518
2448235.409 309561.75 770.5452 0.19 P-03-08 784.518
2448235.409 309561.75 770.3812 0.15 P-03-08 784.518
2448235.409 309561.75 770.2172 0.18 P-03-08 784.518
2448235.409 309561.75 770.0204 0.16 P-03-08 784.518
2448235.409 309561.75 769.8564 0.18 P-03-08 784.518
2448235.409 309561.75 769.6924 0.17 P-03-08 784.518
2448235.409 309561.75 769.52512 0.14 P-03-08 784.518
2448235.409 309561.75 769.39392 0.16 P-03-08 784.518
2448235.409 309561.75 769.24304 0.21 P-03-08 784.518
2448235.409 309561.75 769.0528 0.19 P-03-08 784.518
2448235.409 309561.75 768.90192 0.17 P-03-08 784.518
2448235.409 309561.75 768.76416 0.21 P-03-08 784.518
2448235.409 309561.75 768.60672 0.18 P-03-08 784.518
2448235.409 309561.75 768.43944 0.16 P-03-08 784.518
2448235.409 309561.75 768.25248 0.17 P-03-08 784.518
2448235.409 309561.75 768.09504 0.2 P-03-08 784.518
2448235.409 309561.75 767.94088 0.22 P-03-08 784.518
2448235.409 309561.75 767.79656 0.23 P-03-08 784.518
2448235.409 309561.75 767.61616 0.22 P-03-08 784.518
2448235.409 309561.75 767.45872 0.19 P-03-08 784.518
2448235.409 309561.75 767.30128 0.17 P-03-08 784.518
2448235.409 309561.75 767.14712 0.21 P-03-08 784.518
2448235.409 309561.75 766.96016 0.23 P-03-08 784.518
2448235.409 309561.75 766.80272 0.23 P-03-08 784.518
2448235.409 309561.75 766.64856 0.23 P-03-08 784.518
2448235.409 309561.75 766.49112 0.22 P-03-08 784.518
2448235.409 309561.75 766.30088 0.16 P-03-08 784.518
2448235.409 309561.75 766.1008 0.24 P-03-08 784.518
2448235.409 309561.75 765.94992 0.24 P-03-08 784.518
2448235.409 309561.75 765.79576 0.24 P-03-08 784.518
2448235.409 309561.75 765.6744 0.18 P-03-08 784.518
2448228.89 309502.423 784.214 0.61 P-03-09 784.214
2448228.89 309502.423 784.10248 0.19 P-03-09 784.214
2448228.89 309502.423 783.9352 1.57 P-03-09 784.214
2448228.89 309502.423 783.93192 2.08 P-03-09 784.214
2448228.89 309502.423 783.74824 0.26 P-03-09 784.214
2448228.89 309502.423 783.61704 0.26 P-03-09 784.214
2448228.89 309502.423 783.49896 0.08 P-03-09 784.214
2448228.89 309502.423 783.48912 0.31 P-03-09 784.214
2448228.89 309502.423 783.3448 0.31 P-03-09 784.214
2448228.89 309502.423 783.17424 0.18 P-03-09 784.214
2448228.89 309502.423 783.02664 0.22 P-03-09 784.214
2448228.89 309502.423 782.7872 0.32 P-03-09 784.214
2448228.89 309502.423 782.58712 0.33 P-03-09 784.214
2448228.89 309502.423 782.3936 0.27 P-03-09 784.214
2448228.89 309502.423 782.23944 0.29 P-03-09 784.214
2448228.89 309502.423 782.09512 0.22 P-03-09 784.214
2448228.89 309502.423 781.87536 0.27 P-03-09 784.214
2448228.89 309502.423 781.74088 0.35 P-03-09 784.214
2448228.89 309502.423 781.58344 0.3 P-03-09 784.214
2448228.89 309502.423 781.45224 0.38 P-03-09 784.214
2448228.89 309502.423 781.23904 0.29 P-03-09 784.214
2448228.89 309502.423 781.03568 0.26 P-03-09 784.214
2448228.89 309502.423 780.83888 0.33 P-03-09 784.214
2448228.89 309502.423 780.7536 0.44 P-03-09 784.214
2448228.89 309502.423 780.52072 0.44 P-03-09 784.214
2448228.89 309502.423 780.3764 0.35 P-03-09 784.214
2448228.89 309502.423 780.1468 0.37 P-03-09 784.214
2448228.89 309502.423 779.94016 0.17 P-03-09 784.214
2448228.89 309502.423 779.74008 0.34 P-03-09 784.214
2448228.89 309502.423 779.50064 0.33 P-03-09 784.214
2448228.89 309502.423 779.3104 0.23 P-03-09 784.214
2448228.89 309502.423 779.12672 0.33 P-03-09 784.214
2448228.89 309502.423 778.9168 0.27 P-03-09 784.214
2448228.89 309502.423 778.77904 0.26 P-03-09 784.214
2448228.89 309502.423 778.57568 0.32 P-03-09 784.214
2448228.89 309502.423 778.40184 0.37 P-03-09 784.214
2448228.89 309502.423 778.21816 0.4 P-03-09 784.214
2448228.89 309502.423 778.05744 0.38 P-03-09 784.214
2448228.89 309502.423 777.90328 0.4 P-03-09 784.214
2448228.89 309502.423 777.73928 0.4 P-03-09 784.214
2448228.89 309502.423 777.54904 0.44 P-03-09 784.214
2448228.89 309502.423 777.37848 0.35 P-03-09 784.214
2448228.89 309502.423 777.21448 0.34 P-03-09 784.214
2448228.89 309502.423 777.05376 0.3 P-03-09 784.214
2448228.89 309502.423 776.85696 0.3 P-03-09 784.214
2448228.89 309502.423 776.6864 0.2 P-03-09 784.214
2448228.89 309502.423 776.51912 0.34 P-03-09 784.214
2448228.89 309502.423 776.31248 0.27 P-03-09 784.214
2448228.89 309502.423 776.14192 0.28 P-03-09 784.214
2448228.89 309502.423 775.97136 0.3 P-03-09 784.214
2448228.89 309502.423 775.79752 0.27 P-03-09 784.214
2448228.89 309502.423 775.59088 0.26 P-03-09 784.214
2448228.89 309502.423 775.4564 0.32 P-03-09 784.214
2448228.89 309502.423 775.24976 0.27 P-03-09 784.214
2448228.89 309502.423 775.0956 0.25 P-03-09 784.214
2448228.89 309502.423 774.93816 0.35 P-03-09 784.214
2448228.89 309502.423 774.75448 0.28 P-03-09 784.214
2448228.89 309502.423 774.59376 0.33 P-03-09 784.214
2448228.89 309502.423 774.4232 0.19 P-03-09 784.214
2448228.89 309502.423 774.21984 0.29 P-03-09 784.214
2448228.89 309502.423 774.04928 0.27 P-03-09 784.214
2448228.89 309502.423 773.882 0.41 P-03-09 784.214
2448228.89 309502.423 773.70816 0.36 P-03-09 784.214
2448228.89 309502.423 773.5048 0.3 P-03-09 784.214

```
2448228.89 309502.423 773.33096 0.33 P-03-09 784.214
2448228.89 309502.423 773.15712 0.28 P-03-09 784.214
2448228.89 309502.423 772.98328 0.31 P-03-09 784.214
2448228.89 309502.423 772.77664 0.37 P-03-09 784.214
2448228.89 309502.423 772.62248 0.33 P-03-09 784.214
2448228.89 309502.423 772.4552 0.37 P-03-09 784.214
2448228.89 309502.423 772.28136 0.33 P-03-09 784.214
2448228.89 309502.423 772.14032 0.26 P-03-09 784.214
2448228.89 309502.423 771.97632 0.31 P-03-09 784.214
2448228.89 309502.423 771.77624 0.46 P-03-09 784.214
2448228.89 309502.423 771.61224 0.46 P-03-09 784.214
2448228.89 309502.423 771.44496 0.44 P-03-09 784.214
2448228.89 309502.423 771.27112 0.25 P-03-09 784.214
2448228.89 309502.423 771.0612 0.28 P-03-09 784.214
2448228.89 309502.423 770.88736 0.31 P-03-09 784.214
2448228.89 309502.423 770.7168 0.36 P-03-09 784.214
2448228.89 309502.423 770.54296 0.27 P-03-09 784.214
2448228.89 309502.423 770.32648 0.25 P-03-09 784.214
2448228.89 309502.423 770.14936 0.17 P-03-09 784.214
2448228.89 309502.423 769.96896 0.32 P-03-09 784.214
2448228.89 309502.423 769.79512 0.38 P-03-09 784.214
2448228.89 309502.423 769.58192 0.26 P-03-09 784.214
2448228.89 309502.423 769.41792 0.27 P-03-09 784.214
2448228.89 309502.423 769.26048 0.33 P-03-09 784.214
2448228.89 309502.423 769.07024 0.31 P-03-09 784.214
2448228.89 309502.423 768.88984 0.23 P-03-09 784.214
2448228.89 309502.423 768.74552 0.27 P-03-09 784.214
2448228.89 309502.423 768.56512 0.26 P-03-09 784.214
2448228.89 309502.423 768.42736 0.32 P-03-09 784.214
2448228.89 309502.423 768.2732 0.27 P-03-09 784.214
2448228.89 309502.423 768.11904 0.3 P-03-09 784.214
2448228.89 309502.423 767.93536 0.28 P-03-09 784.214
2448228.89 309502.423 767.77464 0.3 P-03-09 784.214
2448228.89 309502.423 767.62048 0.26 P-03-09 784.214
2448228.89 309502.423 767.46304 0.39 P-03-09 784.214
2448228.89 309502.423 767.28592 0.38 P-03-09 784.214
2448228.89 309502.423 767.14488 0.34 P-03-09 784.214
2448228.89 309502.423 767.00712 0.35 P-03-09 784.214
2448228.89 309502.423 766.90216 0.38 P-03-09 784.214
2448204.371 310099.857 800.292 0.99 TF-10-01 800.292
2448204.371 310099.857 800.1444 2.49 TF-10-01 800.292
2448204.371 310099.857 800.06896 3.09 TF-10-01 800.292
2448204.371 310099.857 799.98368 0.93 TF-10-01 800.292
2448204.371 310099.857 799.80328 0.86 TF-10-01 800.292
2448204.371 310099.857 799.6524 0.82 TF-10-01 800.292
2448204.371 310099.857 799.49496 0.8 TF-10-01 800.292
2448204.371 310099.857 799.34408 0.86 TF-10-01 800.292
2448204.371 310099.857 799.15712 0.83 TF-10-01 800.292
2448204.371 310099.857 799.00296 0.81 TF-10-01 800.292
2448204.371 310099.857 798.8488 0.8 TF-10-01 800.292
2448204.371 310099.857 798.69136 0.8 TF-10-01 800.292
2448204.371 310099.857 798.50768 0.81 TF-10-01 800.292
2448204.371 310099.857 798.35352 0.79 TF-10-01 800.292
2448204.371 310099.857 798.19608 0.72 TF-10-01 800.292
2448204.371 310099.857 798.02224 0.76 TF-10-01 800.292
2448204.371 310099.857 797.89104 0.78 TF-10-01 800.292
2448204.371 310099.857 797.78608 0.82 TF-10-01 800.292
2448154.647 310040.177 798.121 0.7 TF-10-02 798.121
2448154.647 310040.177 797.97012 0.7 TF-10-02 798.121
2448154.647 310040.177 797.75364 0.56 TF-10-02 798.121
2448154.647 310040.177 797.62244 0.59 TF-10-02 798.121
2448154.647 310040.177 797.42564 0.53 TF-10-02 798.121
2448154.647 310040.177 797.22228 0.51 TF-10-02 798.121
2448154.647 310040.177 797.01564 0.54 TF-10-02 798.121
2448154.647 310040.177 796.83524 0.61 TF-10-02 798.121
2448154.647 310040.177 796.67452 0.65 TF-10-02 798.121
2448154.647 310040.177 796.54332 0.59 TF-10-02 798.121
2448154.647 310040.177 796.40884 0.52 TF-10-02 798.121
2448154.647 310040.177 796.27436 0.63 TF-10-02 798.121
2448154.647 310040.177 796.11364 0.55 TF-10-02 798.121
2448154.647 310040.177 795.9726 0.69 TF-10-02 798.121
2448154.647 310040.177 795.83484 0.67 TF-10-02 798.121
2448154.647 310040.177 795.69052 0.71 TF-10-02 798.121
2448154.647 310040.177 795.54292 0.51 TF-10-02 798.121
2448154.647 310040.177 795.48388 0.64 TF-10-02 798.121
2448145.458 309891.448 795.259 0.85 TF-10-03 795.259
2448145.458 309891.448 795.08516 1.6 TF-10-03 795.259
2448145.458 309891.448 794.93428 2.71 TF-10-03 795.259
2448145.458 309891.448 794.78012 0.95 TF-10-03 795.259
2448145.458 309891.448 794.7014 0.74 TF-10-03 795.259
2448145.458 309891.448 794.5702 0.76 TF-10-03 795.259
2448145.458 309891.448 794.439 1 TF-10-03 795.259
2448145.458 309891.448 794.30124 0.83 TF-10-03 795.259
2448145.458 309891.448 794.14052 0.65 TF-10-03 795.259
2448145.458 309891.448 794.00276 0.6 TF-10-03 795.259
2448145.458 309891.448 793.86172 0.58 TF-10-03 795.259
2448145.458 309891.448 793.72068 0.63 TF-10-03 795.259
2448145.458 309891.448 793.5534 0.57 TF-10-03 795.259
2448145.458 309891.448 793.41236 0.67 TF-10-03 795.259
2448145.458 309891.448 793.26476 0.68 TF-10-03 795.259
2448145.458 309891.448 793.11716 0.59 TF-10-03 795.259
2448145.458 309891.448 792.94332 0.68 TF-10-03 795.259
2448145.458 309891.448 792.799 0.7 TF-10-03 795.259
2448145.458 309891.448 792.63172 0.71 TF-10-03 795.259
2448145.458 309891.448 792.46772 0.7 TF-10-03 795.259
2448145.458 309891.448 792.32668 0.63 TF-10-03 795.259
2448145.458 309891.448 792.18236 0.8 TF-10-03 795.259
2448145.458 309891.448 792.0446 0.75 TF-10-03 795.259
2448145.458 309891.448 791.9134 0.67 TF-10-03 795.259
2448145.458 309891.448 791.8314 0.7 TF-10-03 795.259
2448243.299 309816.678 796.109 0.58 TF-10-04 796.109
2448243.299 309816.678 796.08276 2.47 TF-10-04 796.109
```

```
2448243.299 309816.678 795.90236 1.48 TF-10-04 796.109
2448243.299 309816.678 795.73508 1.34 TF-10-04 796.109
2448243.299 309816.678 795.58748 1.02 TF-10-04 796.109
2448243.299 309816.678 795.39068 1 TF-10-04 796.109
2448243.299 309816.678 795.22012 0.87 TF-10-04 796.109
2448243.299 309816.678 795.06596 0.89 TF-10-04 796.109
2448243.299 309816.678 794.88556 0.59 TF-10-04 796.109
2448243.299 309816.678 794.7314 0.36 TF-10-04 796.109
2448243.299 309816.678 794.52804 0.5 TF-10-04 796.109
2448243.299 309816.678 794.39684 0.89 TF-10-04 796.109
2448243.299 309816.678 794.1902 0.44 TF-10-04 796.109
2448243.299 309816.678 794.059 0.53 TF-10-04 796.109
2448243.299 309816.678 793.85236 0.47 TF-10-04 796.109
2448243.299 309816.678 793.71132 0.61 TF-10-04 796.109
2448243.299 309816.678 793.52764 0.65 TF-10-04 796.109
2448243.299 309816.678 793.38332 0.43 TF-10-04 796.109
2448243.299 309816.678 793.21276 0.52 TF-10-04 796.109
2448243.299 309816.678 793.08156 0.42 TF-10-04 796.109
2448243.299 309816.678 793.06188 0.89 TF-10-04 796.109
2448402.145 309828.871 797.771 1.09 TF-10-05 797.771
2448402.145 309828.871 797.60044 1.14 TF-10-05 797.771
2448402.145 309828.871 797.42004 1.37 TF-10-05 797.771
2448402.145 309828.871 797.23308 1.03 TF-10-05 797.771
2448402.145 309828.871 797.10844 0.95 TF-10-05 797.771
2448391.358 309921.771 802.1046 0.43 TF-10-06 802.121
2448391.358 309921.771 802.02916 0.01 TF-10-06 802.121
2448391.358 309921.771 801.88484 0.39 TF-10-06 802.121
2448391.358 309921.771 801.83236 1.56 TF-10-06 802.121
2448391.358 309921.771 801.70116 0.91 TF-10-06 802.121
2448391.358 309921.771 801.56668 0.62 TF-10-06 802.121
2448391.358 309921.771 801.42892 0.32 TF-10-06 802.121
2448391.358 309921.771 801.34364 0.22 TF-10-06 802.121
2448391.358 309921.771 801.20588 0.25 TF-10-06 802.121
2448391.358 309921.771 801.03532 0.35 TF-10-06 802.121
2448391.358 309921.771 800.891 2.1 TF-10-06 802.121
2448391.358 309921.771 800.8254 2.5 TF-10-06 802.121
2448391.358 309921.771 800.63188 2.04 TF-10-06 802.121
2448391.358 309921.771 800.46788 2.87 TF-10-06 802.121
2448391.358 309921.771 800.30388 2.76 TF-10-06 802.121
2448391.358 309921.771 800.13988 3.19 TF-10-06 802.121
2448391.358 309921.771 799.94308 3.35 TF-10-06 802.121
2448391.358 309921.771 799.77908 4.6 TF-10-06 802.121
2448391.358 309921.771 799.61836 5.47 TF-10-06 802.121
2448391.358 309921.771 799.44124 6.84 TF-10-06 802.121
2448391.358 309921.771 799.3166 7.1 TF-10-06 802.121
2448391.358 309921.771 799.16244 5.89 TF-10-06 802.121
2448391.358 309921.771 799.005 4.29 TF-10-06 802.121
2448391.358 309921.771 798.85084 2.03 TF-10-06 802.121
2448391.358 309921.771 798.65732 0.66 TF-10-06 802.121
2448391.358 309921.771 798.4966 1.15 TF-10-06 802.121
2448391.358 309921.771 798.32932 0.76 TF-10-06 802.121
2448391.358 309921.771 798.13252 0.4 TF-10-06 802.121
2448391.358 309921.771 798.06692 0.22 TF-10-06 802.121
2448391.358 309921.771 797.86684 0.31 TF-10-06 802.121
2448391.358 309921.771 797.70284 1.9 TF-10-06 802.121
2448391.358 309921.771 797.51916 2.01 TF-10-06 802.121
2448391.358 309921.771 797.447 4.26 TF-10-06 802.121
2448319.104 309952.357 801.576 0.21 TF-10-07 801.576
2448319.104 309952.357 801.49728 1.33 TF-10-07 801.576
2448319.104 309952.357 801.41856 0.21 TF-10-07 801.576
2448319.104 309952.357 801.27096 1.1 TF-10-07 801.576
2448319.104 309952.357 801.0676 0.47 TF-10-07 801.576
2448319.104 309952.357 800.92656 0.48 TF-10-07 801.576
2448319.104 309952.357 800.71992 0.17 TF-10-07 801.576
2448319.104 309952.357 800.5756 0.54 TF-10-07 801.576
2448319.104 309952.357 800.41816 0.38 TF-10-07 801.576
2448319.104 309952.357 800.21808 0.13 TF-10-07 801.576
2448319.104 309952.357 800.0508 0.52 TF-10-07 801.576
2448319.104 309952.357 799.94912 0.84 TF-10-07 801.576
2448319.104 309952.357 799.77528 0.23 TF-10-07 801.576
2448319.104 309952.357 799.7064 0.2 TF-10-07 801.576
2448319.104 309952.357 799.49648 0.5 TF-10-07 801.576
2448319.104 309952.357 799.42432 0.79 TF-10-07 801.576
2448319.104 309952.357 799.21112 0.48 TF-10-07 801.576
2448319.104 309952.357 799.03728 0.41 TF-10-07 801.576
2448319.104 309952.357 798.88312 0.39 TF-10-07 801.576
2448319.104 309952.357 798.82736 0.38 TF-10-07 801.576
2448319.104 309952.357 798.66336 0.47 TF-10-07 801.576
2448319.104 309952.357 798.49608 11.5 TF-10-07 801.576
2448319.104 309952.357 798.28288 8.67 TF-10-07 801.576
2448319.104 309952.357 798.13856 6.46 TF-10-07 801.576
2448319.104 309952.357 797.93848 5.55 TF-10-07 801.576
2448319.104 309952.357 797.79088 13.89 TF-10-07 801.576
2448319.104 309952.357 797.65968 16.43 TF-10-07 801.576
2448319.104 309952.357 797.59736 11.94 TF-10-07 801.576
2448243.58 309965.418 795.55 -0.19 TF-10-08 795.55
2448243.58 309965.418 795.37944 0.62 TF-10-08 795.55
2448243.58 309965.418 795.16952 1.93 TF-10-08 795.55
2448243.58 309965.418 794.96288 0.61 TF-10-08 795.55
2448243.58 309965.418 794.74968 0.17 TF-10-08 795.55
2448243.58 309965.418 794.54632 0.4 TF-10-08 795.55
2448243.58 309965.418 794.29376 0.29 TF-10-08 795.55
2448243.58 309965.418 794.15272 0.17 TF-10-08 795.55
2448243.58 309965.418 793.99856 0.42 TF-10-08 795.55
2448243.58 309965.418 793.8444 0.45 TF-10-08 795.55
2448243.58 309965.418 793.68696 0.25 TF-10-08 795.55
2448243.58 309965.418 793.5 0.25 TF-10-08 795.55
2448243.58 309965.418 793.34256 0.27 TF-10-08 795.55
2448243.58 309965.418 793.18512 0.24 TF-10-08 795.55
2448243.58 309965.418 793.02768 0.36 TF-10-08 795.55
2448243.58 309965.418 792.89648 0.44 TF-10-08 795.55
2448243.58 309965.418 792.762 0.31 TF-10-08 795.55
```

```
2448243.58 309965.418 792.61768 0.48 TF-10-08 795.55
2448243.58 309965.418 792.47664 0.54 TF-10-08 795.55
2448243.58 309965.418 792.47008 1.35 TF-10-08 795.55
2448317.917 309925.765 803.598 0.66 TF-10-09 803.598
2448317.917 309925.765 803.45368 0.53 TF-10-09 803.598
2448317.917 309925.765 803.31264 0.63 TF-10-09 803.598
2448317.917 309925.765 803.15848 0.79 TF-10-09 803.598
2448317.917 309925.765 803.00432 0.55 TF-10-09 803.598
2448317.917 309925.765 802.8108 0.4 TF-10-09 803.598
2448317.917 309925.765 802.65336 0.38 TF-10-09 803.598
2448317.917 309925.765 802.48936 0.35 TF-10-09 803.598
2448317.917 309925.765 802.32864 0.45 TF-10-09 803.598
2448317.917 309925.765 802.13184 0.48 TF-10-09 803.598
2448317.917 309925.765 801.96784 0.39 TF-10-09 803.598
2448317.917 309925.765 801.80384 0.45 TF-10-09 803.598
2448317.917 309925.765 801.63984 0.52 TF-10-09 803.598
2448317.917 309925.765 801.43976 1.52 TF-10-09 803.598
2448317.917 309925.765 801.27248 3.62 TF-10-09 803.598
2448317.917 309925.765 801.1052 3.24 TF-10-09 803.598
2448317.917 309925.765 800.95432 1.5 TF-10-09 803.598
2448317.917 309925.765 800.88216 0.9 TF-10-09 803.598
2448317.917 309925.765 800.73128 3.58 TF-10-09 803.598
2448317.917 309925.765 800.54432 9.27 TF-10-09 803.598
2448317.917 309925.765 800.38688 8.59 TF-10-09 803.598
2448317.917 309925.765 800.2196 7.35 TF-10-09 803.598
2448317.917 309925.765 800.03264 7.98 TF-10-09 803.598
2448317.917 309925.765 799.86536 6.08 TF-10-09 803.598
2448317.917 309925.765 799.69152 5.05 TF-10-09 803.598
2448317.917 309925.765 799.52096 4.12 TF-10-09 803.598
2448317.917 309925.765 799.3176 6.62 TF-10-09 803.598
2448317.917 309925.765 799.14704 7.04 TF-10-09 803.598
2448317.917 309925.765 798.96664 2.89 TF-10-09 803.598
2448317.917 309925.765 798.79936 5.8 TF-10-09 803.598
2448317.917 309925.765 798.76 5.95 TF-10-09 803.598
```

```
# C Tech Data Tool generated APDV File from
W:\PROJECTS\LOCKHEADMARTIN\WILCOX\MVS\DATA\ROSTALL_TF-11&12WCONTROLS_011216-REDUCED.APDV (1/22/2016 2:47:45 PM)
x, y, z, @@Fluorescence, Boring, Elevation
Elevation Ft
3296,1 %
2447893.155, 309672.589, 783.458, 1.28, P-03-01, 783.458
2447893.155, 309672.589, 783.3432, 0.8, P-03-01, 783.458
2447893.155, 309672.589, 783.09064, 2.63, P-03-01, 783.458
2447893.155, 309672.589, 782.87088, 1.02, P-03-01, 783.458
2447893.155, 309672.589, 782.58552, 0.96, P-03-01, 783.458
2447893.155, 309672.589, 782.26408, 0.97, P-03-01, 783.458
2447893.155, 309672.589, 782.10336, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 781.90656, 1.1, P-03-01, 783.458
2447893.155, 309672.589, 781.57528, 1, P-03-01, 783.458
2447893.155, 309672.589, 781.47688, 0.88, P-03-01, 783.458
2447893.155, 309672.589, 781.1948, 0.97, P-03-01, 783.458
2447893.155, 309672.589, 780.94224, 1.42, P-03-01, 783.458
2447893.155, 309672.589, 780.68312, 1, P-03-01, 783.458
2447893.155, 309672.589, 780.42072, 0.99, P-03-01, 783.458
2447893.155, 309672.589, 780.24688, 0.75, P-03-01, 783.458
2447893.155, 309672.589, 779.97464, 0.9, P-03-01, 783.458
2447893.155, 309672.589, 779.90576, 1.05, P-03-01, 783.458
2447893.155, 309672.589, 779.79752, 0.87, P-03-01, 783.458
2447893.155, 309672.589, 779.522, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 779.2432, 0.94, P-03-01, 783.458
2447893.155, 309672.589, 779.14152, 1.02, P-03-01, 783.458
2447893.155, 309672.589, 778.9644, 0.65, P-03-01, 783.458
2447893.155, 309672.589, 778.79056, 0.64, P-03-01, 783.458
2447893.155, 309672.589, 778.6856, 0.41, P-03-01, 783.458
2447893.155, 309672.589, 778.4068, 0.93, P-03-01, 783.458
2447893.155, 309672.589, 778.15752, 0.82, P-03-01, 783.458
2447893.155, 309672.589, 778.00992, 0.63, P-03-01, 783.458
2447893.155, 309672.589, 778.00664, 0.79, P-03-01, 783.458
2447893.155, 309672.589, 777.92136, 0.66, P-03-01, 783.458
2447893.155, 309672.589, 777.6524, 0.8, P-03-01, 783.458
2447893.155, 309672.589, 777.47856, 0.73, P-03-01, 783.458
2447893.155, 309672.589, 777.19976, 1.27, P-03-01, 783.458
2447893.155, 309672.589, 776.91112, 1.15, P-03-01, 783.458
2447893.155, 309672.589, 776.6192, 1.39, P-03-01, 783.458
2447893.155, 309672.589, 776.36008, 1.28, P-03-01, 783.458
2447893.155, 309672.589, 776.07144, 1.34, P-03-01, 783.458
2447893.155, 309672.589, 775.77624, 1.26, P-03-01, 783.458
2447893.155, 309672.589, 775.48104, 1.29, P-03-01, 783.458
2447893.155, 309672.589, 775.18584, 1.18, P-03-01, 783.458
2447893.155, 309672.589, 775.07432, 1.34, P-03-01, 783.458
2447893.155, 309672.589, 774.84472, 1.04, P-03-01, 783.458
2447893.155, 309672.589, 774.5364, 1.16, P-03-01, 783.458
2447893.155, 309672.589, 774.25432, 1.22, P-03-01, 783.458
2447893.155, 309672.589, 773.95912, 1.31, P-03-01, 783.458
2447893.155, 309672.589, 773.66064, 1.33, P-03-01, 783.458
2447893.155, 309672.589, 773.36216, 1.3, P-03-01, 783.458
2447893.155, 309672.589, 773.05712, 1.03, P-03-01, 783.458
2447893.155, 309672.589, 772.75208, 0.95, P-03-01, 783.458
2447893.155, 309672.589, 772.4864, 1.17, P-03-01, 783.458
2447893.155, 309672.589, 772.3716, 1.14, P-03-01, 783.458
2447893.155, 309672.589, 772.2568, 0.71, P-03-01, 783.458
2447893.155, 309672.589, 772.06656, 1.19, P-03-01, 783.458
2447893.155, 309672.589, 771.76152, 1.24, P-03-01, 783.458
2447893.155, 309672.589, 771.75496, 1.03, P-03-01, 783.458
2447893.155, 309672.589, 771.49584, 1.16, P-03-01, 783.458
2447893.155, 309672.589, 771.38104, 1.28, P-03-01, 783.458
2447893.155, 309672.589, 771.076, 1.11, P-03-01, 783.458
2447893.155, 309672.589, 771.0104, 0.95, P-03-01, 783.458
2447893.155, 309672.589, 771.00712, 1.24, P-03-01, 783.458
2447893.155, 309672.589, 770.67912, 1.38, P-03-01, 783.458
2447893.155, 309672.589, 770.57416, 1.45, P-03-01, 783.458
2447893.155, 309672.589, 770.27568, 1.1, P-03-01, 783.458
2447893.155, 309672.589, 769.97392, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 769.89848, 0.85, P-03-01, 783.458
2447893.155, 309672.589, 769.79024, 0.33, P-03-01, 783.458
2447893.155, 309672.589, 769.71152, 0.73, P-03-01, 783.458
2447893.155, 309672.589, 769.4852, 0.97, P-03-01, 783.458
2447893.155, 309672.589, 769.29824, 0.93, P-03-01, 783.458
2447893.155, 309672.589, 769.18016, 1.24, P-03-01, 783.458
2447893.155, 309672.589, 769.10472, 0.85, P-03-01, 783.458
2447893.155, 309672.589, 768.81608, 1.29, P-03-01, 783.458
2447893.155, 309672.589, 768.7144, 1.06, P-03-01, 783.458
2447893.155, 309672.589, 768.37328, 1.34, P-03-01, 783.458
2447893.155, 309672.589, 768.11744, 1.18, P-03-01, 783.458
2447893.155, 309672.589, 767.93048, 1.01, P-03-01, 783.458
2447893.155, 309672.589, 767.68448, 1.19, P-03-01, 783.458
2447893.155, 309672.589, 767.43192, 1.29, P-03-01, 783.458
2447893.155, 309672.589, 767.17936, 1.31, P-03-01, 783.458
2447893.155, 309672.589, 766.92352, 1.3, P-03-01, 783.458
2447893.155, 309672.589, 766.75952, 0.9, P-03-01, 783.458
2447893.155, 309672.589, 766.59552, 0.96, P-03-01, 783.458
2447893.155, 309672.589, 766.32984, 0.56, P-03-01, 783.458
2447893.155, 309672.589, 766.15928, 0.62, P-03-01, 783.458
2447893.155, 309672.589, 766.06088, 0.5, P-03-01, 783.458
2447893.155, 309672.589, 765.88704, 0.74, P-03-01, 783.458
2447893.155, 309672.589, 765.68368, 0.59, P-03-01, 783.458
2447893.155, 309672.589, 765.51312, 0.83, P-03-01, 783.458
2447893.155, 309672.589, 765.34256, 0.75, P-03-01, 783.458
2447893.155, 309672.589, 765.172, 0.94, P-03-01, 783.458
2447893.155, 309672.589, 764.96536, 0.75, P-03-01, 783.458
2447893.155, 309672.589, 764.89976, 0.98, P-03-01, 783.458
2447893.155, 309672.589, 764.8932, 0.82, P-03-01, 783.458
2447893.155, 309672.589, 764.64064, 0.9, P-03-01, 783.458
2447893.155, 309672.589, 764.37496, 1.08, P-03-01, 783.458
2447893.155, 309672.589, 764.106, 0.73, P-03-01, 783.458
2447893.155, 309672.589, 764.00432, 0.62, P-03-01, 783.458
2447893.155, 309672.589, 763.83376, 1.02, P-03-01, 783.458
```

2447893.155, 309672.589, 763.55168, 1.19, P-03-01, 783.458
2447893.155, 309672.589, 763.27288, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 762.9908, 1.12, P-03-01, 783.458
2447893.155, 309672.589, 762.92192, 0.85, P-03-01, 783.458
2447893.155, 309672.589, 762.63984, 0.75, P-03-01, 783.458
2447893.155, 309672.589, 762.36104, 1.18, P-03-01, 783.458
2447893.155, 309672.589, 762.07896, 1.09, P-03-01, 783.458
2447893.155, 309672.589, 761.89856, 1.22, P-03-01, 783.458
2447893.155, 309672.589, 761.7936, 1, P-03-01, 783.458
2447893.155, 309672.589, 761.73128, 1.29, P-03-01, 783.458
2447893.155, 309672.589, 761.40984, 1.14, P-03-01, 783.458
2447893.155, 309672.589, 761.24256, 0.98, P-03-01, 783.458
2447893.155, 309672.589, 760.96704, 1.02, P-03-01, 783.458
2447893.155, 309672.589, 760.89816, 1.11, P-03-01, 783.458
2447893.155, 309672.589, 760.6948, 0.83, P-03-01, 783.458
2447893.155, 309672.589, 760.4488, 0.89, P-03-01, 783.458
2447893.155, 309672.589, 760.16672, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 760.06176, 1.04, P-03-01, 783.458
2447893.155, 309672.589, 759.78624, 0.56, P-03-01, 783.458
2447893.155, 309672.589, 759.50088, 0.41, P-03-01, 783.458
2447893.155, 309672.589, 759.432, 0.72, P-03-01, 783.458
2447893.155, 309672.589, 759.2188, 0.58, P-03-01, 783.458
2447893.155, 309672.589, 759.04168, 0.77, P-03-01, 783.458
2447893.155, 309672.589, 758.7596, 0.7, P-03-01, 783.458
2447893.155, 309672.589, 758.53, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 758.52672, 0.75, P-03-01, 783.458
2447893.155, 309672.589, 758.27416, 0.82, P-03-01, 783.458
2447893.155, 309672.589, 758.0052, 0.86, P-03-01, 783.458
2447893.155, 309672.589, 757.73624, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 757.56568, 0.63, P-03-01, 783.458
2447893.155, 309672.589, 757.3492, 1.12, P-03-01, 783.458
2447893.155, 309672.589, 757.1032, 1.17, P-03-01, 783.458
2447893.155, 309672.589, 756.89, 0.99, P-03-01, 783.458
2447893.155, 309672.589, 756.60792, 1.15, P-03-01, 783.458
2447893.155, 309672.589, 756.4308, 1.25, P-03-01, 783.458
2447893.155, 309672.589, 756.14544, 1.16, P-03-01, 783.458
2447893.155, 309672.589, 755.86336, 1.06, P-03-01, 783.458
2447893.155, 309672.589, 755.61408, 1.11, P-03-01, 783.458
2447893.155, 309672.589, 755.3976, 1.12, P-03-01, 783.458
2447893.155, 309672.589, 755.25, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 754.99744, 1.04, P-03-01, 783.458
2447893.155, 309672.589, 754.82688, 1.14, P-03-01, 783.458
2447893.155, 309672.589, 754.65632, 0.95, P-03-01, 783.458
2447893.155, 309672.589, 754.38736, 0.97, P-03-01, 783.458
2447893.155, 309672.589, 754.10528, 1.05, P-03-01, 783.458
2447893.155, 309672.589, 753.92488, 1.11, P-03-01, 783.458
2447893.155, 309672.589, 753.74776, 0.83, P-03-01, 783.458
2447893.155, 309672.589, 753.46568, 1.06, P-03-01, 783.458
2447893.155, 309672.589, 753.18032, 0.82, P-03-01, 783.458
2447893.155, 309672.589, 753.0032, 0.72, P-03-01, 783.458
2447893.155, 309672.589, 752.79328, 0.93, P-03-01, 783.458
2447893.155, 309672.589, 752.61288, 0.71, P-03-01, 783.458
2447893.155, 309672.589, 752.32752, 0.78, P-03-01, 783.458
2447893.155, 309672.589, 752.15368, 0.91, P-03-01, 783.458
2447893.155, 309672.589, 751.8716, 0.69, P-03-01, 783.458
2447893.155, 309672.589, 751.6748, 0.81, P-03-01, 783.458
2447893.155, 309672.589, 751.33696, 0.66, P-03-01, 783.458
2447893.155, 309672.589, 751.1664, 0.81, P-03-01, 783.458
2447893.155, 309672.589, 751.05816, 0.6, P-03-01, 783.458
2447893.155, 309672.589, 750.8876, 0.83, P-03-01, 783.458
2447893.155, 309672.589, 750.71376, 0.55, P-03-01, 783.458
2447893.155, 309672.589, 750.50384, 0.94, P-03-01, 783.458
2447893.155, 309672.589, 750.33656, 0.82, P-03-01, 783.458
2447893.155, 309672.589, 750.166, 1.12, P-03-01, 783.458
2447893.155, 309672.589, 749.89376, 0.93, P-03-01, 783.458
2447893.155, 309672.589, 749.63792, 0.87, P-03-01, 783.458
2447893.155, 309672.589, 749.37224, 1.08, P-03-01, 783.458
2447893.155, 309672.589, 749.30336, 0.78, P-03-01, 783.458
2447893.155, 309672.589, 749.02784, 1.18, P-03-01, 783.458
2447893.155, 309672.589, 748.95896, 0.62, P-03-01, 783.458
2447893.155, 309672.589, 748.89664, 0.84, P-03-01, 783.458
2447893.155, 309672.589, 748.63752, 0.68, P-03-01, 783.458
2447893.155, 309672.589, 748.36856, 0.64, P-03-01, 783.458
2447893.155, 309672.589, 748.09304, 0.64, P-03-01, 783.458
2447893.155, 309672.589, 747.81752, 0.8, P-03-01, 783.458
2447893.155, 309672.589, 747.74864, 0.65, P-03-01, 783.458
2447893.155, 309672.589, 747.46656, 0.7, P-03-01, 783.458
2447893.155, 309672.589, 747.29272, 0.74, P-03-01, 783.458
2447893.155, 309672.589, 747.02048, 0.7, P-03-01, 783.458
2447893.155, 309672.589, 746.92208, 0.59, P-03-01, 783.458
2447893.155, 309672.589, 746.65312, 0.74, P-03-01, 783.458
2447893.155, 309672.589, 746.394, 0.71, P-03-01, 783.458
2447893.155, 309672.589, 746.13488, 0.74, P-03-01, 783.458
2447893.155, 309672.589, 745.83968, 0.71, P-03-01, 783.458
2447873.211, 309600.034, 781.991, 0.85, P-03-02, 781.991
2447873.211, 309600.034, 781.93852, 0.62, P-03-02, 781.991
2447873.211, 309600.034, 781.81716, 1.14, P-03-02, 781.991
2447873.211, 309600.034, 781.80404, 0.77, P-03-02, 781.991
2447873.211, 309600.034, 781.71876, 1.88, P-03-02, 781.991
2447873.211, 309600.034, 781.48916, 0.77, P-03-02, 781.991
2447873.211, 309600.034, 781.22348, 0.84, P-03-02, 781.991
2447873.211, 309600.034, 781.11196, 0.86, P-03-02, 781.991
2447873.211, 309600.034, 780.80692, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 780.61668, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 780.4986, 0.9, P-03-02, 781.991
2447873.211, 309600.034, 780.16404, 0.8, P-03-02, 781.991
2447873.211, 309600.034, 779.81308, 0.73, P-03-02, 781.991
2447873.211, 309600.034, 779.72452, 0.81, P-03-02, 781.991
2447873.211, 309600.034, 779.59332, 0.64, P-03-02, 781.991
2447873.211, 309600.034, 779.4654, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 779.42276, 0.53, P-03-02, 781.991
2447873.211, 309600.034, 779.35716, 0.85, P-03-02, 781.991

2447873.211, 309600.034, 779.32108, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 779.0226, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 778.69788, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 778.34036, 0.63, P-03-02, 781.991
2447873.211, 309600.034, 777.98612, 0.69, P-03-02, 781.991
2447873.211, 309600.034, 777.9074, 0.63, P-03-02, 781.991
2447873.211, 309600.034, 777.74668, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 777.47116, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 777.33012, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 777.24484, 0.95, P-03-02, 781.991
2447873.211, 309600.034, 777.01524, 0.73, P-03-02, 781.991
2447873.211, 309600.034, 776.7266, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 776.40188, 0.68, P-03-02, 781.991
2447873.211, 309600.034, 776.2674, 0.66, P-03-02, 781.991
2447873.211, 309600.034, 776.14932, 0.8, P-03-02, 781.991
2447873.211, 309600.034, 776.09356, 0.64, P-03-02, 781.991
2447873.211, 309600.034, 776.01156, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 775.76228, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 775.49988, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 775.32932, 0.91, P-03-02, 781.991
2447873.211, 309600.034, 775.05052, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 774.77172, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 774.48964, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 774.38468, 0.9, P-03-02, 781.991
2447873.211, 309600.034, 774.3158, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 774.03044, 0.87, P-03-02, 781.991
2447873.211, 309600.034, 773.74508, 1, P-03-02, 781.991
2447873.211, 309600.034, 773.45644, 0.88, P-03-02, 781.991
2447873.211, 309600.034, 773.16452, 0.85, P-03-02, 781.991
2447873.211, 309600.034, 773.00052, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 772.99068, 0.98, P-03-02, 781.991
2447873.211, 309600.034, 772.97756, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 772.91524, 0.97, P-03-02, 781.991
2447873.211, 309600.034, 772.64956, 0.96, P-03-02, 781.991
2447873.211, 309600.034, 772.37732, 0.92, P-03-02, 781.991
2447873.211, 309600.034, 772.2002, 0.75, P-03-02, 781.991
2447873.211, 309600.034, 771.91156, 0.95, P-03-02, 781.991
2447873.211, 309600.034, 771.62292, 1.05, P-03-02, 781.991
2447873.211, 309600.034, 771.44252, 1.1, P-03-02, 781.991
2447873.211, 309600.034, 771.1506, 0.84, P-03-02, 781.991
2447873.211, 309600.034, 770.8882, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 770.69468, 0.62, P-03-02, 781.991
2447873.211, 309600.034, 770.53396, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 770.27156, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 770.10756, 0.6, P-03-02, 781.991
2447873.211, 309600.034, 769.855, 0.66, P-03-02, 781.991
2447873.211, 309600.034, 769.84188, 0.83, P-03-02, 781.991
2447873.211, 309600.034, 769.6582, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 769.5106, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 769.41548, 0.5, P-03-02, 781.991
2447873.211, 309600.034, 769.2646, 0.81, P-03-02, 781.991
2447873.211, 309600.034, 769.00876, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 768.75292, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 768.58892, 0.69, P-03-02, 781.991
2447873.211, 309600.034, 768.4282, 0.99, P-03-02, 781.991
2447873.211, 309600.034, 768.33308, 0.81, P-03-02, 781.991
2447873.211, 309600.034, 768.23468, 0.97, P-03-02, 781.991
2447873.211, 309600.034, 768.16908, 0.69, P-03-02, 781.991
2447873.211, 309600.034, 768.00508, 0.97, P-03-02, 781.991
2447873.211, 309600.034, 767.74268, 1.03, P-03-02, 781.991
2447873.211, 309600.034, 767.54588, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 767.3786, 0.96, P-03-02, 781.991
2447873.211, 309600.034, 767.11948, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 766.95548, 0.92, P-03-02, 781.991
2447873.211, 309600.034, 766.8538, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 766.7882, 0.99, P-03-02, 781.991
2447873.211, 309600.034, 766.5258, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 766.28308, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 766.03052, 0.94, P-03-02, 781.991
2447873.211, 309600.034, 765.96492, 0.96, P-03-02, 781.991
2447873.211, 309600.034, 765.70908, 0.69, P-03-02, 781.991
2447873.211, 309600.034, 765.45652, 0.95, P-03-02, 781.991
2447873.211, 309600.034, 765.30236, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 765.20396, 0.89, P-03-02, 781.991
2447873.211, 309600.034, 765.10556, 0.61, P-03-02, 781.991
2447873.211, 309600.034, 765.04324, 0.95, P-03-02, 781.991
2447873.211, 309600.034, 764.7874, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 764.52828, 0.92, P-03-02, 781.991
2447873.211, 309600.034, 764.2626, 1, P-03-02, 781.991
2447873.211, 309600.034, 764.19372, 0.8, P-03-02, 781.991
2447873.211, 309600.034, 763.9182, 1.35, P-03-02, 781.991
2447873.211, 309600.034, 763.79684, 1.68, P-03-02, 781.991
2447873.211, 309600.034, 763.64924, 1.08, P-03-02, 781.991
2447873.211, 309600.034, 763.54428, 1.56, P-03-02, 781.991
2447873.211, 309600.034, 763.26876, 1.5, P-03-02, 781.991
2447873.211, 309600.034, 762.9834, 1.41, P-03-02, 781.991
2447873.211, 309600.034, 762.721, 1.49, P-03-02, 781.991
2447873.211, 309600.034, 762.4586, 1.52, P-03-02, 781.991
2447873.211, 309600.034, 762.393, 1.15, P-03-02, 781.991
2447873.211, 309600.034, 762.12076, 1.54, P-03-02, 781.991
2447873.211, 309600.034, 762.0158, 1.12, P-03-02, 781.991
2447873.211, 309600.034, 761.84524, 1.22, P-03-02, 781.991
2447873.211, 309600.034, 761.74356, 0.63, P-03-02, 781.991
2447873.211, 309600.034, 761.46476, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 761.39588, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 761.18924, 0.4, P-03-02, 781.991
2447873.211, 309600.034, 761.11708, 0.55, P-03-02, 781.991
2447873.211, 309600.034, 760.84156, 0.58, P-03-02, 781.991
2447873.211, 309600.034, 760.56276, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 760.4578, 0.5, P-03-02, 781.991
2447873.211, 309600.034, 760.2118, 0.62, P-03-02, 781.991
2447873.211, 309600.034, 760.10684, 0.72, P-03-02, 781.991

2447873.211, 309600.034, 759.99532, 0.56, P-03-02, 781.991
2447873.211, 309600.034, 759.99204, 0.73, P-03-02, 781.991
2447873.211, 309600.034, 759.6542, 0.48, P-03-02, 781.991
2447873.211, 309600.034, 759.5886, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 759.39508, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 759.32948, 0.52, P-03-02, 781.991
2447873.211, 309600.034, 759.2278, 0.62, P-03-02, 781.991
2447873.211, 309600.034, 759.15892, 0.36, P-03-02, 781.991
2447873.211, 309600.034, 758.88012, 0.5, P-03-02, 781.991
2447873.211, 309600.034, 758.77516, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 758.60132, 0.64, P-03-02, 781.991
2447873.211, 309600.034, 758.31924, 0.91, P-03-02, 781.991
2447873.211, 309600.034, 758.04044, 1.11, P-03-02, 781.991
2447873.211, 309600.034, 757.97156, 0.88, P-03-02, 781.991
2447873.211, 309600.034, 757.68948, 1.25, P-03-02, 781.991
2447873.211, 309600.034, 757.41068, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 757.23356, 0.99, P-03-02, 781.991
2447873.211, 309600.034, 756.95148, 0.96, P-03-02, 781.991
2447873.211, 309600.034, 756.65628, 0.86, P-03-02, 781.991
2447873.211, 309600.034, 756.55788, 0.97, P-03-02, 781.991
2447873.211, 309600.034, 756.39716, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 756.1282, 0.81, P-03-02, 781.991
2447873.211, 309600.034, 755.84612, 0.85, P-03-02, 781.991
2447873.211, 309600.034, 755.74772, 1.01, P-03-02, 781.991
2447873.211, 309600.034, 755.46236, 0.84, P-03-02, 781.991
2447873.211, 309600.034, 755.39676, 0.68, P-03-02, 781.991
2447873.211, 309600.034, 755.1114, 1.13, P-03-02, 781.991
2447873.211, 309600.034, 754.93756, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 754.82932, 1, P-03-02, 781.991
2447873.211, 309600.034, 754.72436, 0.61, P-03-02, 781.991
2447873.211, 309600.034, 754.54724, 0.54, P-03-02, 781.991
2447873.211, 309600.034, 754.37012, 0.83, P-03-02, 781.991
2447873.211, 309600.034, 754.19628, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 754.09132, 0.94, P-03-02, 781.991
2447873.211, 309600.034, 753.91092, 0.64, P-03-02, 781.991
2447873.211, 309600.034, 753.80596, 0.84, P-03-02, 781.991
2447873.211, 309600.034, 753.54684, 0.75, P-03-02, 781.991
2447873.211, 309600.034, 753.28444, 0.8, P-03-02, 781.991
2447873.211, 309600.034, 753.01548, 0.78, P-03-02, 781.991
2447873.211, 309600.034, 752.73668, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 752.53004, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 752.4218, 0.49, P-03-02, 781.991
2447873.211, 309600.034, 752.17908, 0.65, P-03-02, 781.991
2447873.211, 309600.034, 751.90028, 0.48, P-03-02, 781.991
2447873.211, 309600.034, 751.71988, 0.6, P-03-02, 781.991
2447873.211, 309600.034, 751.61492, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 751.4378, 0.53, P-03-02, 781.991
2447873.211, 309600.034, 751.3394, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 751.241, 0.69, P-03-02, 781.991
2447873.211, 309600.034, 751.07372, 0.54, P-03-02, 781.991
2447873.211, 309600.034, 751.00812, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 750.74572, 0.75, P-03-02, 781.991
2447873.211, 309600.034, 750.64732, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 750.35212, 0.59, P-03-02, 781.991
2447873.211, 309600.034, 750.19796, 0.79, P-03-02, 781.991
2447873.211, 309600.034, 749.94868, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 749.6994, 0.6, P-03-02, 781.991
2447873.211, 309600.034, 749.43044, 0.67, P-03-02, 781.991
2447873.211, 309600.034, 749.26316, 0.44, P-03-02, 781.991
2447873.211, 309600.034, 749.16476, 0.66, P-03-02, 781.991
2447873.211, 309600.034, 749.00404, 0.43, P-03-02, 781.991
2447873.211, 309600.034, 748.90564, 0.58, P-03-02, 781.991
2447873.211, 309600.034, 748.65964, 0.44, P-03-02, 781.991
2447873.211, 309600.034, 748.55796, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 748.29556, 0.63, P-03-02, 781.991
2447873.211, 309600.034, 748.03316, 0.74, P-03-02, 781.991
2447873.211, 309600.034, 747.77076, 0.4, P-03-02, 781.991
2447873.211, 309600.034, 747.70516, 0.55, P-03-02, 781.991
2447873.211, 309600.034, 747.43948, 0.58, P-03-02, 781.991
2447873.211, 309600.034, 747.29516, 0.58, P-03-02, 781.991
2447873.211, 309600.034, 747.29188, 0.7, P-03-02, 781.991
2447873.211, 309600.034, 747.27548, 0.5, P-03-02, 781.991
2447873.211, 309600.034, 747.08196, 0.72, P-03-02, 781.991
2447873.211, 309600.034, 746.9278, 0.56, P-03-02, 781.991
2447873.211, 309600.034, 746.83268, 0.73, P-03-02, 781.991
2447873.211, 309600.034, 746.58996, 0.55, P-03-02, 781.991
2447873.211, 309600.034, 746.42596, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 746.22916, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 745.993, 0.47, P-03-02, 781.991
2447873.211, 309600.034, 745.73388, 0.63, P-03-02, 781.991
2447873.211, 309600.034, 745.46164, 0.71, P-03-02, 781.991
2447873.211, 309600.034, 745.17956, 0.5, P-03-02, 781.991
2447873.211, 309600.034, 745.07132, 0.67, P-03-02, 781.991
2447873.211, 309600.034, 744.90404, 0.45, P-03-02, 781.991
2447873.211, 309600.034, 744.83516, 0.61, P-03-02, 781.991
2447873.211, 309600.034, 744.62852, 0.66, P-03-02, 781.991
2447873.211, 309600.034, 744.38908, 0.52, P-03-02, 781.991
2447873.211, 309600.034, 744.28084, 0.76, P-03-02, 781.991
2447873.211, 309600.034, 744.01516, 0.58, P-03-02, 781.991
2447873.211, 309600.034, 743.91348, 0.49, P-03-02, 781.991
2447873.211, 309600.034, 743.77572, 0.63, P-03-02, 781.991
2447996.487, 309594.067, 782.204, 0.59, P-03-03, 782.204
2447996.487, 309594.067, 782.1712, 4.78, P-03-03, 782.204
2447996.487, 309594.067, 781.88912, 1.16, P-03-03, 782.204
2447996.487, 309594.067, 781.83664, 0.95, P-03-03, 782.204
2447996.487, 309594.067, 781.5808, 0.94, P-03-03, 782.204
2447996.487, 309594.067, 781.40368, 1, P-03-03, 782.204
2447996.487, 309594.067, 781.2364, 0.81, P-03-03, 782.204
2447996.487, 309594.067, 781.00024, 1.03, P-03-03, 782.204
2447996.487, 309594.067, 780.73128, 0.84, P-03-03, 782.204
2447996.487, 309594.067, 780.41968, 0.77, P-03-03, 782.204
2447996.487, 309594.067, 780.10808, 0.76, P-03-03, 782.204

2447996.487, 309594.067, 779.91456, 0.9, P-03-03, 782.204
2447996.487, 309594.067, 779.69152, 0.72, P-03-03, 782.204
2447996.487, 309594.067, 779.37336, 0.79, P-03-03, 782.204
2447996.487, 309594.067, 779.07816, 0.82, P-03-03, 782.204
2447996.487, 309594.067, 778.78296, 0.76, P-03-03, 782.204
2447996.487, 309594.067, 778.47792, 0.8, P-03-03, 782.204
2447996.487, 309594.067, 778.17616, 0.78, P-03-03, 782.204
2447996.487, 309594.067, 777.87112, 0.89, P-03-03, 782.204
2447996.487, 309594.067, 777.6776, 0.68, P-03-03, 782.204
2447996.487, 309594.067, 777.36928, 0.82, P-03-03, 782.204
2447996.487, 309594.067, 777.05768, 0.81, P-03-03, 782.204
2447996.487, 309594.067, 776.78544, 0.89, P-03-03, 782.204
2447996.487, 309594.067, 776.55256, 0.63, P-03-03, 782.204
2447996.487, 309594.067, 776.53944, 0.89, P-03-03, 782.204
2447996.487, 309594.067, 776.49352, 0.73, P-03-03, 782.204
2447996.487, 309594.067, 776.218, 0.94, P-03-03, 782.204
2447996.487, 309594.067, 776.04416, 0.71, P-03-03, 782.204
2447996.487, 309594.067, 775.83424, 0.91, P-03-03, 782.204
2447996.487, 309594.067, 775.52592, 0.94, P-03-03, 782.204
2447996.487, 309594.067, 775.2176, 0.95, P-03-03, 782.204
2447996.487, 309594.067, 774.94208, 0.77, P-03-03, 782.204
2447996.487, 309594.067, 774.63376, 0.8, P-03-03, 782.204
2447996.487, 309594.067, 774.31888, 0.8, P-03-03, 782.204
2447996.487, 309594.067, 774.004, 0.82, P-03-03, 782.204
2447996.487, 309594.067, 773.6924, 0.8, P-03-03, 782.204
2447996.487, 309594.067, 773.4136, 0.86, P-03-03, 782.204
2447996.487, 309594.067, 773.08888, 0.92, P-03-03, 782.204
2447996.487, 309594.067, 772.98064, 0.94, P-03-03, 782.204
2447996.487, 309594.067, 772.68544, 0.87, P-03-03, 782.204
2447996.487, 309594.067, 772.41648, 0.79, P-03-03, 782.204
2447996.487, 309594.067, 772.1016, 0.76, P-03-03, 782.204
2447996.487, 309594.067, 771.79328, 0.84, P-03-03, 782.204
2447996.487, 309594.067, 771.6752, 0.87, P-03-03, 782.204
2447996.487, 309594.067, 771.59648, 0.73, P-03-03, 782.204
2447996.487, 309594.067, 771.24224, 0.82, P-03-03, 782.204
2447996.487, 309594.067, 771.04216, 1.24, P-03-03, 782.204
2447996.487, 309594.067, 770.96344, 0.83, P-03-03, 782.204
2447996.487, 309594.067, 770.84864, 1.1, P-03-03, 782.204
2447996.487, 309594.067, 770.53048, 0.64, P-03-03, 782.204
2447996.487, 309594.067, 770.28448, 0.71, P-03-03, 782.204
2447996.487, 309594.067, 770.22216, 0.86, P-03-03, 782.204
2447996.487, 309594.067, 769.9204, 0.8, P-03-03, 782.204
2447996.487, 309594.067, 769.63832, 0.84, P-03-03, 782.204
2447996.487, 309594.067, 769.34312, 0.77, P-03-03, 782.204
2447996.487, 309594.067, 769.22832, 0.5, P-03-03, 782.204
2447996.487, 309594.067, 768.92984, 0.59, P-03-03, 782.204
2447996.487, 309594.067, 768.67072, 0.59, P-03-03, 782.204
2447996.487, 309594.067, 768.38208, 0.65, P-03-03, 782.204
2447996.487, 309594.067, 768.09016, 0.65, P-03-03, 782.204
2447996.487, 309594.067, 767.79168, 0.58, P-03-03, 782.204
2447996.487, 309594.067, 767.68016, 0.57, P-03-03, 782.204
2447996.487, 309594.067, 767.4932, 0.42, P-03-03, 782.204
2447996.487, 309594.067, 767.24392, 0.56, P-03-03, 782.204
2447996.487, 309594.067, 767.16848, 0.62, P-03-03, 782.204
2447996.487, 309594.067, 767.10944, 0.43, P-03-03, 782.204
2448002.862, 309480.231, 783.002, 0.79, P-03-04, 783.002
2448002.862, 309480.231, 782.97576, 0.66, P-03-04, 783.002
2448002.862, 309480.231, 782.7232, 0.73, P-03-04, 783.002
2448002.862, 309480.231, 782.4608, 0.72, P-03-04, 783.002
2448002.862, 309480.231, 782.18856, 0.69, P-03-04, 783.002
2448002.862, 309480.231, 781.90648, 0.77, P-03-04, 783.002
2448002.862, 309480.231, 781.79496, 0.81, P-03-04, 783.002
2448002.862, 309480.231, 781.72608, 0.67, P-03-04, 783.002
2448002.862, 309480.231, 781.444, 0.73, P-03-04, 783.002
2448002.862, 309480.231, 781.15536, 0.7, P-03-04, 783.002
2448002.862, 309480.231, 780.87, 0.8, P-03-04, 783.002
2448002.862, 309480.231, 780.57808, 0.82, P-03-04, 783.002
2448002.862, 309480.231, 780.4108, 0.85, P-03-04, 783.002
2448002.862, 309480.231, 780.35504, 0.6, P-03-04, 783.002
2448002.862, 309480.231, 780.10904, 0.77, P-03-04, 783.002
2448002.862, 309480.231, 779.93192, 0.87, P-03-04, 783.002
2448002.862, 309480.231, 779.65312, 0.83, P-03-04, 783.002
2448002.862, 309480.231, 779.58096, 0.69, P-03-04, 783.002
2448002.862, 309480.231, 779.476, 0.82, P-03-04, 783.002
2448002.862, 309480.231, 779.1808, 0.69, P-03-04, 783.002
2448002.862, 309480.231, 779.10864, 0.85, P-03-04, 783.002
2448002.862, 309480.231, 778.82, 0.73, P-03-04, 783.002
2448002.862, 309480.231, 778.52152, 0.72, P-03-04, 783.002
2448002.862, 309480.231, 778.41, 0.6, P-03-04, 783.002
2448002.862, 309480.231, 778.1148, 0.78, P-03-04, 783.002
2448002.862, 309480.231, 777.81304, 0.69, P-03-04, 783.002
2448002.862, 309480.231, 777.7376, 0.66, P-03-04, 783.002
2448002.862, 309480.231, 777.55064, 0.86, P-03-04, 783.002
2448002.862, 309480.231, 777.37352, 0.62, P-03-04, 783.002
2448002.862, 309480.231, 777.10456, 0.69, P-03-04, 783.002
2448002.862, 309480.231, 776.92088, 0.74, P-03-04, 783.002
2448002.862, 309480.231, 776.74704, 0.63, P-03-04, 783.002
2448002.862, 309480.231, 776.47808, 0.77, P-03-04, 783.002
2448002.862, 309480.231, 776.196, 0.9, P-03-04, 783.002
2448002.862, 309480.231, 776.12712, 0.92, P-03-04, 783.002
2448002.862, 309480.231, 775.84832, 0.75, P-03-04, 783.002
2448002.862, 309480.231, 775.64168, 0.67, P-03-04, 783.002
2448002.862, 309480.231, 775.39568, 0.76, P-03-04, 783.002
2448002.862, 309480.231, 775.18248, 0.49, P-03-04, 783.002
2448002.862, 309480.231, 775.11032, 0.71, P-03-04, 783.002
2448002.862, 309480.231, 774.9004, 0.62, P-03-04, 783.002
2448002.862, 309480.231, 774.82824, 0.43, P-03-04, 783.002
2448002.862, 309480.231, 774.54616, 0.49, P-03-04, 783.002
2448002.862, 309480.231, 774.43792, 0.31, P-03-04, 783.002
2448002.862, 309480.231, 774.41824, 0.38, P-03-04, 783.002
2448002.862, 309480.231, 774.29032, 0.08, P-03-04, 783.002
2448002.862, 309480.231, 774.1788, 0.06, P-03-04, 783.002

2448002.862, 309480.231, 774.07056, 0.38, P-03-04, 783.002
2448002.862, 309480.231, 773.9984, 0.25, P-03-04, 783.002
2448002.862, 309480.231, 773.96232, 1.17, P-03-04, 783.002
2448002.862, 309480.231, 773.8836, 1.02, P-03-04, 783.002
2448002.862, 309480.231, 773.81472, 1.25, P-03-04, 783.002
2448002.862, 309480.231, 773.52936, 1.04, P-03-04, 783.002
2448002.862, 309480.231, 773.4244, 0.99, P-03-04, 783.002
2448002.862, 309480.231, 773.13248, 1.03, P-03-04, 783.002
2448002.862, 309480.231, 772.834, 1.11, P-03-04, 783.002
2448002.862, 309480.231, 772.53552, 1.12, P-03-04, 783.002
2448002.862, 309480.231, 772.2764, 1.21, P-03-04, 783.002
2448002.862, 309480.231, 772.1616, 1.19, P-03-04, 783.002
2448002.862, 309480.231, 771.85984, 0.77, P-03-04, 783.002
2448002.862, 309480.231, 771.67288, 1.2, P-03-04, 783.002
2448002.862, 309480.231, 771.37112, 1.28, P-03-04, 783.002
2448002.862, 309480.231, 771.06608, 1.26, P-03-04, 783.002
2448002.862, 309480.231, 770.95456, 1.46, P-03-04, 783.002
2448002.862, 309480.231, 770.78728, 1.04, P-03-04, 783.002
2448002.862, 309480.231, 770.61016, 1.35, P-03-04, 783.002
2448002.862, 309480.231, 770.3248, 1.24, P-03-04, 783.002
2448002.862, 309480.231, 770.03616, 1.16, P-03-04, 783.002
2448002.862, 309480.231, 769.73768, 0.56, P-03-04, 783.002
2448002.862, 309480.231, 769.4392, 0.59, P-03-04, 783.002
2448002.862, 309480.231, 769.13744, 0.88, P-03-04, 783.002
2448002.862, 309480.231, 768.8324, 0.96, P-03-04, 783.002
2448002.862, 309480.231, 768.64216, 1.17, P-03-04, 783.002
2448002.862, 309480.231, 768.44864, 1.04, P-03-04, 783.002
2448002.862, 309480.231, 768.26496, 0.61, P-03-04, 783.002
2448002.862, 309480.231, 768.20264, 0.96, P-03-04, 783.002
2448002.862, 309480.231, 768.11408, 0.63, P-03-04, 783.002
2448002.862, 309480.231, 767.87136, 0.91, P-03-04, 783.002
2448002.862, 309480.231, 767.7828, 0.39, P-03-04, 783.002
2448002.862, 309480.231, 767.73032, 0.61, P-03-04, 783.002
2448002.862, 309480.231, 767.51712, 0.27, P-03-04, 783.002
2448002.862, 309480.231, 767.42528, 0.63, P-03-04, 783.002
2448002.862, 309480.231, 767.33016, 0.41, P-03-04, 783.002
2448002.862, 309480.231, 767.26784, 0.5, P-03-04, 783.002
2448002.862, 309480.231, 767.176, 0.16, P-03-04, 783.002
2448002.862, 309480.231, 767.07104, 0.14, P-03-04, 783.002
2448002.862, 309480.231, 767.00544, 0.4, P-03-04, 783.002
2448002.862, 309480.231, 766.83816, 0.81, P-03-04, 783.002
2448002.862, 309480.231, 766.73976, 0.55, P-03-04, 783.002
2448002.862, 309480.231, 766.63808, 0.73, P-03-04, 783.002
2448002.862, 309480.231, 766.5692, 0.5, P-03-04, 783.002
2448002.862, 309480.231, 766.4708, 0.57, P-03-04, 783.002
2448002.862, 309480.231, 766.40192, 0.35, P-03-04, 783.002
2448002.862, 309480.231, 766.19528, 0.83, P-03-04, 783.002
2448002.862, 309480.231, 766.028, 0.72, P-03-04, 783.002
2448002.862, 309480.231, 765.85744, 1.5, P-03-04, 783.002
2448002.862, 309480.231, 765.69016, 1.41, P-03-04, 783.002
2448002.862, 309480.231, 765.48024, 3.59, P-03-04, 783.002
2448002.862, 309480.231, 765.208, 2.7, P-03-04, 783.002
2448002.862, 309480.231, 765.1096, 3.57, P-03-04, 783.002
2448002.862, 309480.231, 764.87016, 2.99, P-03-04, 783.002
2448002.862, 309480.231, 764.76848, 3.56, P-03-04, 783.002
2448002.862, 309480.231, 764.49952, 2.31, P-03-04, 783.002
2448002.862, 309480.231, 764.46016, 3.33, P-03-04, 783.002
2448002.862, 309480.231, 764.37488, 2.71, P-03-04, 783.002
2448002.862, 309480.231, 764.31584, 3.56, P-03-04, 783.002
2448002.862, 309480.231, 764.06984, 2.05, P-03-04, 783.002
2448002.862, 309480.231, 763.82384, 0.66, P-03-04, 783.002
2448002.862, 309480.231, 763.568, 1.13, P-03-04, 783.002
2448002.862, 309480.231, 763.32856, 1.18, P-03-04, 783.002
2448002.862, 309480.231, 763.17768, 2.59, P-03-04, 783.002
2448002.862, 309480.231, 763.03664, 2.36, P-03-04, 783.002
2448002.862, 309480.231, 763.03008, 4.27, P-03-04, 783.002
2448002.862, 309480.231, 762.98416, 2.55, P-03-04, 783.002
2448204.371, 310099.857, 800.292, 0.99, TF-10-01, 800.292
2448204.371, 310099.857, 800.27232, 0.78, TF-10-01, 800.292
2448204.371, 310099.857, 800.06896, 3.09, TF-10-01, 800.292
2448204.371, 310099.857, 799.98368, 0.93, TF-10-01, 800.292
2448204.371, 310099.857, 799.74096, 0.9, TF-10-01, 800.292
2448204.371, 310099.857, 799.6524, 0.82, TF-10-01, 800.292
2448204.371, 310099.857, 799.554, 0.98, TF-10-01, 800.292
2448204.371, 310099.857, 799.49496, 0.8, TF-10-01, 800.292
2448204.371, 310099.857, 799.4064, 1.11, TF-10-01, 800.292
2448204.371, 310099.857, 799.24896, 0.84, TF-10-01, 800.292
2448204.371, 310099.857, 799.00296, 0.81, TF-10-01, 800.292
2448204.371, 310099.857, 798.75368, 0.88, TF-10-01, 800.292
2448204.371, 310099.857, 798.50768, 0.81, TF-10-01, 800.292
2448204.371, 310099.857, 798.2584, 0.8, TF-10-01, 800.292
2448204.371, 310099.857, 798.01568, 0.9, TF-10-01, 800.292
2448204.371, 310099.857, 797.78608, 0.82, TF-10-01, 800.292
2448154.647, 310040.177, 798.121, 0.7, TF-10-02, 798.121
2448154.647, 310040.177, 798.10788, 0.82, TF-10-02, 798.121
2448154.647, 310040.177, 797.85204, 0.64, TF-10-02, 798.121
2448154.647, 310040.177, 797.67164, 0.53, TF-10-02, 798.121
2448154.647, 310040.177, 797.42564, 0.53, TF-10-02, 798.121
2448154.647, 310040.177, 797.29772, 0.57, TF-10-02, 798.121
2448154.647, 310040.177, 797.09436, 0.46, TF-10-02, 798.121
2448154.647, 310040.177, 796.83524, 0.61, TF-10-02, 798.121
2448154.647, 310040.177, 796.75324, 0.7, TF-10-02, 798.121
2448154.647, 310040.177, 796.62532, 0.53, TF-10-02, 798.121
2448154.647, 310040.177, 796.49084, 0.85, TF-10-02, 798.121
2448154.647, 310040.177, 796.40884, 0.52, TF-10-02, 798.121
2448154.647, 310040.177, 796.33012, 0.71, TF-10-02, 798.121
2448154.647, 310040.177, 796.19236, 0.54, TF-10-02, 798.121
2448154.647, 310040.177, 795.8906, 0.66, TF-10-02, 798.121
2448154.647, 310040.177, 795.69052, 0.71, TF-10-02, 798.121
2448154.647, 310040.177, 795.54292, 0.51, TF-10-02, 798.121
2448154.647, 310040.177, 795.48388, 0.64, TF-10-02, 798.121
2448145.458, 309891.448, 795.259, 0.85, TF-10-03, 795.259

```
2448145.458, 309891.448, 795.23932, 0.51, TF-10-03, 795.259
2448145.458, 309891.448, 795.2262, 1.06, TF-10-03, 795.259
2448145.458, 309891.448, 795.19012, 0.72, TF-10-03, 795.259
2448145.458, 309891.448, 795.06876, 2.08, TF-10-03, 795.259
2448145.458, 309891.448, 794.98676, 1.55, TF-10-03, 795.259
2448145.458, 309891.448, 794.93428, 2.71, TF-10-03, 795.259
2448145.458, 309891.448, 794.85556, 1.11, TF-10-03, 795.259
2448145.458, 309891.448, 794.7014, 0.74, TF-10-03, 795.259
2448145.458, 309891.448, 794.439, 1, TF-10-03, 795.259
2448145.458, 309891.448, 794.14052, 0.65, TF-10-03, 795.259
2448145.458, 309891.448, 794.08476, 0.57, TF-10-03, 795.259
2448145.458, 309891.448, 793.77644, 0.65, TF-10-03, 795.259
2448145.458, 309891.448, 793.6354, 0.5, TF-10-03, 795.259
2448145.458, 309891.448, 793.3238, 0.71, TF-10-03, 795.259
2448145.458, 309891.448, 793.11716, 0.59, TF-10-03, 795.259
2448145.458, 309891.448, 793.0286, 0.72, TF-10-03, 795.259
2448145.458, 309891.448, 792.71044, 0.68, TF-10-03, 795.259
2448145.458, 309891.448, 792.46772, 0.7, TF-10-03, 795.259
2448145.458, 309891.448, 792.18236, 0.8, TF-10-03, 795.259
2448145.458, 309891.448, 791.9134, 0.67, TF-10-03, 795.259
2448145.458, 309891.448, 791.8314, 0.7, TF-10-03, 795.259
2448243.299, 309816.678, 796.109, 0.58, TF-10-04, 796.109
2448243.299, 309816.678, 796.08276, 2.47, TF-10-04, 796.109
2448243.299, 309816.678, 796.04668, 0.9, TF-10-04, 796.109
2448243.299, 309816.678, 795.9614, 1.61, TF-10-04, 796.109
2448243.299, 309816.678, 795.78428, 1.96, TF-10-04, 796.109
2448243.299, 309816.678, 795.53828, 0.83, TF-10-04, 796.109
2448243.299, 309816.678, 795.39068, 1, TF-10-04, 796.109
2448243.299, 309816.678, 795.1414, 0.98, TF-10-04, 796.109
2448243.299, 309816.678, 794.93804, 0.91, TF-10-04, 796.109
2448243.299, 309816.678, 794.7314, 0.36, TF-10-04, 796.109
2448243.299, 309816.678, 794.52804, 0.5, TF-10-04, 796.109
2448243.299, 309816.678, 794.47556, 0.89, TF-10-04, 796.109
2448243.299, 309816.678, 794.31812, 0.84, TF-10-04, 796.109
2448243.299, 309816.678, 794.1902, 0.44, TF-10-04, 796.109
2448243.299, 309816.678, 794.13772, 0.55, TF-10-04, 796.109
2448243.299, 309816.678, 793.85236, 0.47, TF-10-04, 796.109
2448243.299, 309816.678, 793.77364, 0.44, TF-10-04, 796.109
2448243.299, 309816.678, 793.7638, 0.65, TF-10-04, 796.109
2448243.299, 309816.678, 793.64244, 0.43, TF-10-04, 796.109
2448243.299, 309816.678, 793.52764, 0.65, TF-10-04, 796.109
2448243.299, 309816.678, 793.46532, 0.48, TF-10-04, 796.109
2448243.299, 309816.678, 793.4194, 0.64, TF-10-04, 796.109
2448243.299, 309816.678, 793.38332, 0.43, TF-10-04, 796.109
2448243.299, 309816.678, 793.31772, 0.58, TF-10-04, 796.109
2448243.299, 309816.678, 793.28164, 0.44, TF-10-04, 796.109
2448243.299, 309816.678, 793.11108, 0.57, TF-10-04, 796.109
2448243.299, 309816.678, 793.0914, 0.4, TF-10-04, 796.109
2448243.299, 309816.678, 793.06188, 0.89, TF-10-04, 796.109
2447722.759, 310222.789, 788.668, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 788.62208, 0.07, TF-11-01, 788.668
2447722.759, 310222.789, 788.3236, 0.91, TF-11-01, 788.668
2447722.759, 310222.789, 788.23832, 0.74, TF-11-01, 788.668
2447722.759, 310222.789, 788.094, 0.03, TF-11-01, 788.668
2447722.759, 310222.789, 787.86112, 0.17, TF-11-01, 788.668
2447722.759, 310222.789, 787.62496, 0.38, TF-11-01, 788.668
2447722.759, 310222.789, 787.54296, 0.16, TF-11-01, 788.668
2447722.759, 310222.789, 787.48064, 0.35, TF-11-01, 788.668
2447722.759, 310222.789, 787.274, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 787.18544, 0.03, TF-11-01, 788.668
2447722.759, 310222.789, 787.0936, 0.13, TF-11-01, 788.668
2447722.759, 310222.789, 787.03456, 0.1, TF-11-01, 788.668
2447722.759, 310222.789, 786.70984, -0.1, TF-11-01, 788.668
2447722.759, 310222.789, 786.59832, 0.16, TF-11-01, 788.668
2447722.759, 310222.789, 786.50648, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 786.4212, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 786.28016, 0.12, TF-11-01, 788.668
2447722.759, 310222.789, 786.01776, 0.25, TF-11-01, 788.668
2447722.759, 310222.789, 785.77832, 0.35, TF-11-01, 788.668
2447722.759, 310222.789, 785.716, 0.08, TF-11-01, 788.668
2447722.759, 310222.789, 785.44048, 0.11, TF-11-01, 788.668
2447722.759, 310222.789, 785.37816, 0.09, TF-11-01, 788.668
2447722.759, 310222.789, 785.19448, 0.18, TF-11-01, 788.668
2447722.759, 310222.789, 785.12888, 0.07, TF-11-01, 788.668
2447722.759, 310222.789, 785.04032, 0.1, TF-11-01, 788.668
2447722.759, 310222.789, 784.94848, 0.04, TF-11-01, 788.668
2447722.759, 310222.789, 784.85664, 0, TF-11-01, 788.668
2447722.759, 310222.789, 784.63688, 0.02, TF-11-01, 788.668
2447722.759, 310222.789, 784.3876, 0.61, TF-11-01, 788.668
2447722.759, 310222.789, 784.19736, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 784.0432, 0.56, TF-11-01, 788.668
2447722.759, 310222.789, 783.9448, 0.17, TF-11-01, 788.668
2447722.759, 310222.789, 783.69224, 0.22, TF-11-01, 788.668
2447722.759, 310222.789, 783.59712, 0.38, TF-11-01, 788.668
2447722.759, 310222.789, 783.44624, 0.05, TF-11-01, 788.668
2447722.759, 310222.789, 783.3708, 0.17, TF-11-01, 788.668
2447722.759, 310222.789, 783.28552, 0.01, TF-11-01, 788.668
2447722.759, 310222.789, 783.13464, 0.11, TF-11-01, 788.668
2447722.759, 310222.789, 782.89192, -0.46, TF-11-01, 788.668
2447722.759, 310222.789, 782.63936, 0.04, TF-11-01, 788.668
2447722.759, 310222.789, 782.54424, 0.36, TF-11-01, 788.668
2447722.759, 310222.789, 782.44584, 0.33, TF-11-01, 788.668
2447722.759, 310222.789, 782.38024, 0.44, TF-11-01, 788.668
2447722.759, 310222.789, 782.28184, 0.11, TF-11-01, 788.668
2447722.759, 310222.789, 782.026, -0.43, TF-11-01, 788.668
2447722.759, 310222.789, 781.76688, -0.06, TF-11-01, 788.668
2447722.759, 310222.789, 781.50776, -0.39, TF-11-01, 788.668
2447722.759, 310222.789, 781.44544, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 781.34704, 0.8, TF-11-01, 788.668
2447722.759, 310222.789, 781.25192, 0.32, TF-11-01, 788.668
2447722.759, 310222.789, 781.18632, 1.5, TF-11-01, 788.668
2447722.759, 310222.789, 780.88456, 0.39, TF-11-01, 788.668
```

2447722.759, 310222.789, 780.78616, 0.04, TF-11-01, 788.668
2447722.759, 310222.789, 780.72056, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 780.42208, 0.04, TF-11-01, 788.668
2447722.759, 310222.789, 780.33352, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 780.29744, 0.25, TF-11-01, 788.668
2447722.759, 310222.789, 780.15312, 0.3, TF-11-01, 788.668
2447722.759, 310222.789, 780.06128, 0.22, TF-11-01, 788.668
2447722.759, 310222.789, 779.96616, 0.1, TF-11-01, 788.668
2447722.759, 310222.789, 779.90384, 0.29, TF-11-01, 788.668
2447722.759, 310222.789, 779.65784, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 779.3692, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 779.20192, 0.3, TF-11-01, 788.668
2447722.759, 310222.789, 779.10352, 0.38, TF-11-01, 788.668
2447722.759, 310222.789, 778.84112, 0.32, TF-11-01, 788.668
2447722.759, 310222.789, 778.77552, 0.3, TF-11-01, 788.668
2447722.759, 310222.789, 778.67712, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 778.41472, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 778.11952, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 777.85056, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 777.58816, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 777.4176, 0.33, TF-11-01, 788.668
2447722.759, 310222.789, 777.14864, 0.44, TF-11-01, 788.668
2447722.759, 310222.789, 777.06992, 0.35, TF-11-01, 788.668
2447722.759, 310222.789, 776.78456, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 776.68944, 0.36, TF-11-01, 788.668
2447722.759, 310222.789, 776.6304, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 776.33192, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 776.16464, 0.15, TF-11-01, 788.668
2447722.759, 310222.789, 776.06296, 0.35, TF-11-01, 788.668
2447722.759, 310222.789, 775.89568, 0.26, TF-11-01, 788.668
2447722.759, 310222.789, 775.79072, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 775.52176, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 775.35448, 0.34, TF-11-01, 788.668
2447722.759, 310222.789, 775.04944, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 774.80672, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 774.4984, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 774.35736, 0.41, TF-11-01, 788.668
2447722.759, 310222.789, 774.18352, 0.16, TF-11-01, 788.668
2447722.759, 310222.789, 773.97688, 0.18, TF-11-01, 788.668
2447722.759, 310222.789, 773.92768, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 773.9244, 0.33, TF-11-01, 788.668
2447722.759, 310222.789, 773.67184, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 773.58328, 0.34, TF-11-01, 788.668
2447722.759, 310222.789, 773.32088, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 773.22248, 0.31, TF-11-01, 788.668
2447722.759, 310222.789, 773.12408, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 772.85512, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 772.75344, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 772.58616, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 772.48448, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 772.32048, 0.34, TF-11-01, 788.668
2447722.759, 310222.789, 772.21552, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 771.94656, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 771.67104, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 771.40208, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 771.19872, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 770.92648, 0.34, TF-11-01, 788.668
2447722.759, 310222.789, 770.8576, 0.27, TF-11-01, 788.668
2447722.759, 310222.789, 770.76576, 0.52, TF-11-01, 788.668
2447722.759, 310222.789, 770.6936, 0.15, TF-11-01, 788.668
2447722.759, 310222.789, 770.4968, 0.14, TF-11-01, 788.668
2447722.759, 310222.789, 770.3328, 0.35, TF-11-01, 788.668
2447722.759, 310222.789, 770.06712, 0.2, TF-11-01, 788.668
2447722.759, 310222.789, 769.96544, 0.21, TF-11-01, 788.668
2447722.759, 310222.789, 769.89656, 0.13, TF-11-01, 788.668
2447722.759, 310222.789, 769.79816, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 769.62104, 0.19, TF-11-01, 788.668
2447722.759, 310222.789, 769.51608, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 769.24056, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 768.93552, 0.44, TF-11-01, 788.668
2447722.759, 310222.789, 768.86336, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 768.7584, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 768.58456, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 768.27296, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 768.20736, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 767.89576, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 767.72192, 0.56, TF-11-01, 788.668
2447722.759, 310222.789, 767.43984, 0.54, TF-11-01, 788.668
2447722.759, 310222.789, 767.24304, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 767.184, 0.53, TF-11-01, 788.668
2447722.759, 310222.789, 766.97736, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 766.87568, 0.58, TF-11-01, 788.668
2447722.759, 310222.789, 766.81008, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 766.50176, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 766.22296, 0.49, TF-11-01, 788.668
2447722.759, 310222.789, 766.0524, 0.57, TF-11-01, 788.668
2447722.759, 310222.789, 765.94744, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 765.66536, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 765.462, 0.29, TF-11-01, 788.668
2447722.759, 310222.789, 765.28816, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 765.1832, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 765.00608, 0.56, TF-11-01, 788.668
2447722.759, 310222.789, 764.68792, 0.36, TF-11-01, 788.668
2447722.759, 310222.789, 764.61904, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 764.51408, 0.1, TF-11-01, 788.668
2447722.759, 310222.789, 764.45176, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 764.25824, 0.36, TF-11-01, 788.668
2447722.759, 310222.789, 764.18936, 0.52, TF-11-01, 788.668
2447722.759, 310222.789, 763.98928, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 763.89088, 0.69, TF-11-01, 788.668
2447722.759, 310222.789, 763.61864, 0.44, TF-11-01, 788.668
2447722.759, 310222.789, 763.51368, 0.61, TF-11-01, 788.668

2447722.759, 310222.789, 763.44152, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 763.2316, 0.59, TF-11-01, 788.668
2447722.759, 310222.789, 762.95608, 0.55, TF-11-01, 788.668
2447722.759, 310222.789, 762.674, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 762.56904, 0.59, TF-11-01, 788.668
2447722.759, 310222.789, 762.49688, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 762.17872, 0.51, TF-11-01, 788.668
2447722.759, 310222.789, 762.10656, 0.6, TF-11-01, 788.668
2447722.759, 310222.789, 761.82448, 0.51, TF-11-01, 788.668
2447722.759, 310222.789, 761.5424, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 761.41448, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 761.28656, 0.31, TF-11-01, 788.668
2447722.759, 310222.789, 761.03072, 0.54, TF-11-01, 788.668
2447722.759, 310222.789, 760.83392, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 760.57152, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 760.296, 0.51, TF-11-01, 788.668
2447722.759, 310222.789, 760.12872, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 759.92536, 0.53, TF-11-01, 788.668
2447722.759, 310222.789, 759.65312, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 759.3776, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 759.10208, 0.53, TF-11-01, 788.668
2447722.759, 310222.789, 758.79376, 0.54, TF-11-01, 788.668
2447722.759, 310222.789, 758.51496, 0.54, TF-11-01, 788.668
2447722.759, 310222.789, 758.27552, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 758.08856, 0.62, TF-11-01, 788.668
2447722.759, 310222.789, 757.8032, 0.56, TF-11-01, 788.668
2447722.759, 310222.789, 757.73104, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 757.62608, 0.55, TF-11-01, 788.668
2447722.759, 310222.789, 757.60312, 0.46, TF-11-01, 788.668
2447722.759, 310222.789, 757.33416, 0.54, TF-11-01, 788.668
2447722.759, 310222.789, 757.27184, 0.57, TF-11-01, 788.668
2447722.759, 310222.789, 756.9996, 0.51, TF-11-01, 788.668
2447722.759, 310222.789, 756.7864, 0.49, TF-11-01, 788.668
2447722.759, 310222.789, 756.71752, 0.62, TF-11-01, 788.668
2447722.759, 310222.789, 756.39608, 0.58, TF-11-01, 788.668
2447722.759, 310222.789, 756.11072, 0.59, TF-11-01, 788.668
2447722.759, 310222.789, 756.04184, 0.49, TF-11-01, 788.668
2447722.759, 310222.789, 755.75648, 0.61, TF-11-01, 788.668
2447722.759, 310222.789, 755.46784, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 755.3596, 0.41, TF-11-01, 788.668
2447722.759, 310222.789, 755.07424, 0.56, TF-11-01, 788.668
2447722.759, 310222.789, 754.96928, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 754.75608, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 754.68392, 0.62, TF-11-01, 788.668
2447722.759, 310222.789, 754.62816, 0.45, TF-11-01, 788.668
2447722.759, 310222.789, 754.3428, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 754.14272, 0.47, TF-11-01, 788.668
2447722.759, 310222.789, 753.97544, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 753.87048, 0.38, TF-11-01, 788.668
2447722.759, 310222.789, 753.69008, 0.34, TF-11-01, 788.668
2447722.759, 310222.789, 753.58512, 0.49, TF-11-01, 788.668
2447722.759, 310222.789, 753.408, 0.38, TF-11-01, 788.668
2447722.759, 310222.789, 753.12264, 0.44, TF-11-01, 788.668
2447722.759, 310222.789, 752.84056, 0.48, TF-11-01, 788.668
2447722.759, 310222.789, 752.73232, 0.32, TF-11-01, 788.668
2447722.759, 310222.789, 752.62408, 0.33, TF-11-01, 788.668
2447722.759, 310222.789, 752.44696, 0.03, TF-11-01, 788.668
2447722.759, 310222.789, 752.26328, 0.06, TF-11-01, 788.668
2447722.759, 310222.789, 752.15504, 0.24, TF-11-01, 788.668
2447722.759, 310222.789, 751.86968, 0.42, TF-11-01, 788.668
2447722.759, 310222.789, 751.68928, 0.33, TF-11-01, 788.668
2447722.759, 310222.789, 751.4892, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 751.48264, 0.13, TF-11-01, 788.668
2447722.759, 310222.789, 751.47608, 0.26, TF-11-01, 788.668
2447722.759, 310222.789, 751.3744, 0.31, TF-11-01, 788.668
2447722.759, 310222.789, 751.10872, 0.29, TF-11-01, 788.668
2447722.759, 310222.789, 750.84304, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 750.63968, 0.4, TF-11-01, 788.668
2447722.759, 310222.789, 750.46256, 0.28, TF-11-01, 788.668
2447722.759, 310222.789, 750.24936, 0.37, TF-11-01, 788.668
2447722.759, 310222.789, 750.1772, 0.27, TF-11-01, 788.668
2447722.759, 310222.789, 750.06896, 0.43, TF-11-01, 788.668
2447722.759, 310222.789, 749.78688, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 749.67864, 0.36, TF-11-01, 788.668
2447722.759, 310222.789, 749.39656, 0.39, TF-11-01, 788.668
2447722.759, 310222.789, 749.28832, 0.5, TF-11-01, 788.668
2447722.759, 310222.789, 749.10464, 0.41, TF-11-01, 788.668
2447722.759, 310222.789, 748.99968, 0.17, TF-11-01, 788.668
2447722.759, 310222.789, 748.81928, 0.25, TF-11-01, 788.668
2447722.759, 310222.789, 748.71104, 0.18, TF-11-01, 788.668
2447722.759, 310222.789, 748.64216, 0.05, TF-11-01, 788.668
2447722.759, 310222.789, 748.35024, 0.18, TF-11-01, 788.668
2447722.759, 310222.789, 748.33056, 0.24, TF-11-01, 788.668
2447722.759, 310222.789, 748.26168, 0.11, TF-11-01, 788.668
2447722.759, 310222.789, 748.15344, 0.23, TF-11-01, 788.668
2447722.759, 310222.789, 748.078, 0.11, TF-11-01, 788.668
2447722.759, 310222.789, 747.99928, 0.26, TF-11-01, 788.668
2447696.546, 310191.777, 788.751, 0.84, TF-11-02, 788.751
2447696.546, 310191.777, 788.71492, 3.75, TF-11-02, 788.751
2447696.546, 310191.777, 788.59356, 2.09, TF-11-02, 788.751
2447696.546, 310191.777, 788.27212, 1.4, TF-11-02, 788.751
2447696.546, 310191.777, 787.98348, 0.99, TF-11-02, 788.751
2447696.546, 310191.777, 787.65876, 0.93, TF-11-02, 788.751
2447696.546, 310191.777, 787.33404, 1, TF-11-02, 788.751
2447696.546, 310191.777, 787.18316, 0.99, TF-11-02, 788.751
2447696.546, 310191.777, 787.09132, 0.78, TF-11-02, 788.751
2447696.546, 310191.777, 787.03228, 0.98, TF-11-02, 788.751
2447696.546, 310191.777, 786.78956, 0.97, TF-11-02, 788.751
2447696.546, 310191.777, 786.53044, 1.08, TF-11-02, 788.751
2447696.546, 310191.777, 786.28444, 0.83, TF-11-02, 788.751
2447696.546, 310191.777, 786.03516, 0.95, TF-11-02, 788.751
2447696.546, 310191.777, 785.87772, 0.75, TF-11-02, 788.751

2447696.546, 310191.777, 785.62844, 0.79, TF-11-02, 788.751
2447696.546, 310191.777, 785.34308, 0.75, TF-11-02, 788.751
2447696.546, 310191.777, 785.08724, 0.75, TF-11-02, 788.751
2447696.546, 310191.777, 784.83796, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 784.58212, 0.9, TF-11-02, 788.751
2447696.546, 310191.777, 784.32628, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 784.07372, 0.74, TF-11-02, 788.751
2447696.546, 310191.777, 783.8146, 0.72, TF-11-02, 788.751
2447696.546, 310191.777, 783.55548, 0.65, TF-11-02, 788.751
2447696.546, 310191.777, 783.29308, 0.7, TF-11-02, 788.751
2447696.546, 310191.777, 783.03724, 0.67, TF-11-02, 788.751
2447696.546, 310191.777, 782.77812, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 782.519, 0.62, TF-11-02, 788.751
2447696.546, 310191.777, 782.35828, 0.53, TF-11-02, 788.751
2447696.546, 310191.777, 782.10244, 0.62, TF-11-02, 788.751
2447696.546, 310191.777, 781.84332, 0.62, TF-11-02, 788.751
2447696.546, 310191.777, 781.58092, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 781.31852, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 781.0594, 0.58, TF-11-02, 788.751
2447696.546, 310191.777, 780.79372, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 780.53132, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 780.20004, 0.71, TF-11-02, 788.751
2447696.546, 310191.777, 779.94092, 0.57, TF-11-02, 788.751
2447696.546, 310191.777, 779.67196, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 779.40956, 0.68, TF-11-02, 788.751
2447696.546, 310191.777, 779.14388, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 778.8782, 0.55, TF-11-02, 788.751
2447696.546, 310191.777, 778.60924, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 778.31076, 0.57, TF-11-02, 788.751
2447696.546, 310191.777, 778.14348, 0.49, TF-11-02, 788.751
2447696.546, 310191.777, 777.8778, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 777.67772, 0.64, TF-11-02, 788.751
2447696.546, 310191.777, 777.40876, 0.43, TF-11-02, 788.751
2447696.546, 310191.777, 777.11356, 0.52, TF-11-02, 788.751
2447696.546, 310191.777, 777.0414, 0.56, TF-11-02, 788.751
2447696.546, 310191.777, 776.79212, 0.52, TF-11-02, 788.751
2447696.546, 310191.777, 776.59204, 0.52, TF-11-02, 788.751
2447696.546, 310191.777, 776.52644, 0.71, TF-11-02, 788.751
2447696.546, 310191.777, 776.21156, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 776.04428, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 775.7786, 0.7, TF-11-02, 788.751
2447696.546, 310191.777, 775.57524, 0.82, TF-11-02, 788.751
2447696.546, 310191.777, 775.303, 0.65, TF-11-02, 788.751
2447696.546, 310191.777, 775.139, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 774.93892, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 774.66668, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 774.39444, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 774.29276, 0.73, TF-11-02, 788.751
2447696.546, 310191.777, 773.94836, 0.93, TF-11-02, 788.751
2447696.546, 310191.777, 773.80732, 0.96, TF-11-02, 788.751
2447696.546, 310191.777, 773.55476, 0.87, TF-11-02, 788.751
2447696.546, 310191.777, 773.27596, 0.66, TF-11-02, 788.751
2447696.546, 310191.777, 773.171, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 772.89548, 0.73, TF-11-02, 788.751
2447696.546, 310191.777, 772.61668, 0.91, TF-11-02, 788.751
2447696.546, 310191.777, 772.40676, 1.07, TF-11-02, 788.751
2447696.546, 310191.777, 772.13124, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 772.05908, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 771.9574, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 771.67532, 0.67, TF-11-02, 788.751
2447696.546, 310191.777, 771.57036, 0.54, TF-11-02, 788.751
2447696.546, 310191.777, 771.25876, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 770.97668, 0.64, TF-11-02, 788.751
2447696.546, 310191.777, 770.9078, 0.72, TF-11-02, 788.751
2447696.546, 310191.777, 770.62572, 0.65, TF-11-02, 788.751
2447696.546, 310191.777, 770.36988, 0.55, TF-11-02, 788.751
2447696.546, 310191.777, 770.05828, 1.02, TF-11-02, 788.751
2447696.546, 310191.777, 769.81556, 0.98, TF-11-02, 788.751
2447696.546, 310191.777, 769.7106, 0.86, TF-11-02, 788.751
2447696.546, 310191.777, 769.44164, 1.23, TF-11-02, 788.751
2447696.546, 310191.777, 769.17268, 0.96, TF-11-02, 788.751
2447696.546, 310191.777, 769.07428, 0.78, TF-11-02, 788.751
2447696.546, 310191.777, 768.73644, 0.84, TF-11-02, 788.751
2447696.546, 310191.777, 768.46748, 0.79, TF-11-02, 788.751
2447696.546, 310191.777, 768.19852, 0.8, TF-11-02, 788.751
2447696.546, 310191.777, 767.92628, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 767.65732, 0.79, TF-11-02, 788.751
2447696.546, 310191.777, 767.59172, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 767.27028, 0.95, TF-11-02, 788.751
2447696.546, 310191.777, 767.20796, 1, TF-11-02, 788.751
2447696.546, 310191.777, 766.90948, 0.92, TF-11-02, 788.751
2447696.546, 310191.777, 766.64052, 0.91, TF-11-02, 788.751
2447696.546, 310191.777, 766.365, 0.76, TF-11-02, 788.751
2447696.546, 310191.777, 766.05996, 0.79, TF-11-02, 788.751
2447696.546, 310191.777, 765.78772, 0.87, TF-11-02, 788.751
2447696.546, 310191.777, 765.5122, 0.79, TF-11-02, 788.751
2447696.546, 310191.777, 765.23996, 0.74, TF-11-02, 788.751
2447696.546, 310191.777, 764.96444, 0.83, TF-11-02, 788.751
2447696.546, 310191.777, 764.7578, 0.88, TF-11-02, 788.751
2447696.546, 310191.777, 764.48228, 0.84, TF-11-02, 788.751
2447696.546, 310191.777, 764.20676, 0.8, TF-11-02, 788.751
2447696.546, 310191.777, 763.92796, 0.81, TF-11-02, 788.751
2447696.546, 310191.777, 763.64916, 0.77, TF-11-02, 788.751
2447696.546, 310191.777, 763.37692, 0.68, TF-11-02, 788.751
2447696.546, 310191.777, 763.20636, 0.74, TF-11-02, 788.751
2447696.546, 310191.777, 762.93084, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 762.8226, 0.56, TF-11-02, 788.751
2447696.546, 310191.777, 762.5438, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 762.44212, 0.73, TF-11-02, 788.751
2447696.546, 310191.777, 762.16004, 0.73, TF-11-02, 788.751
2447696.546, 310191.777, 761.88124, 0.67, TF-11-02, 788.751
2447696.546, 310191.777, 761.60572, 0.64, TF-11-02, 788.751

2447696.546, 310191.777, 761.32364, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 761.04812, 0.65, TF-11-02, 788.751
2447696.546, 310191.777, 760.72012, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 760.4446, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 760.17236, 0.62, TF-11-02, 788.751
2447696.546, 310191.777, 759.96572, 0.54, TF-11-02, 788.751
2447696.546, 310191.777, 759.68692, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 759.40812, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 759.12604, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 758.80788, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 758.52908, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 758.247, 0.59, TF-11-02, 788.751
2447696.546, 310191.777, 757.9682, 0.61, TF-11-02, 788.751
2447696.546, 310191.777, 757.70908, 0.54, TF-11-02, 788.751
2447696.546, 310191.777, 757.46636, 0.58, TF-11-02, 788.751
2447696.546, 310191.777, 757.18756, 0.58, TF-11-02, 788.751
2447696.546, 310191.777, 756.9022, 0.63, TF-11-02, 788.751
2447696.546, 310191.777, 756.60044, 0.6, TF-11-02, 788.751
2447696.546, 310191.777, 756.32164, 0.53, TF-11-02, 788.751
2447696.546, 310191.777, 756.05596, 0.48, TF-11-02, 788.751
2447696.546, 310191.777, 755.79028, 0.45, TF-11-02, 788.751
2447696.546, 310191.777, 755.623, 0.42, TF-11-02, 788.751
2447696.546, 310191.777, 755.3606, 0.48, TF-11-02, 788.751
2447696.546, 310191.777, 755.25892, 0.56, TF-11-02, 788.751
2447696.546, 310191.777, 754.98996, 0.43, TF-11-02, 788.751
2447696.546, 310191.777, 754.6882, 0.46, TF-11-02, 788.751
2447696.546, 310191.777, 754.41596, 0.48, TF-11-02, 788.751
2447696.546, 310191.777, 754.35036, 0.56, TF-11-02, 788.751
2447696.546, 310191.777, 754.05844, 0.53, TF-11-02, 788.751
2447696.546, 310191.777, 753.79276, 0.46, TF-11-02, 788.751
2447696.546, 310191.777, 753.69108, 0.42, TF-11-02, 788.751
2447696.546, 310191.777, 753.42212, 0.56, TF-11-02, 788.751
2447696.546, 310191.777, 753.15644, 0.52, TF-11-02, 788.751
2447696.546, 310191.777, 752.89076, 0.54, TF-11-02, 788.751
2447696.546, 310191.777, 752.589, 0.53, TF-11-02, 788.751
2447696.546, 310191.777, 752.32004, 0.5, TF-11-02, 788.751
2447696.546, 310191.777, 752.05108, 0.55, TF-11-02, 788.751
2447696.546, 310191.777, 751.78212, 0.48, TF-11-02, 788.751
2447696.546, 310191.777, 751.51316, 0.52, TF-11-02, 788.751
2447696.546, 310191.777, 751.41148, 0.45, TF-11-02, 788.751
2447696.546, 310191.777, 751.13924, 0.57, TF-11-02, 788.751
2447696.546, 310191.777, 751.05396, 0.41, TF-11-02, 788.751
2447696.546, 310191.777, 750.78828, 0.36, TF-11-02, 788.751
2447696.546, 310191.777, 750.51932, 0.39, TF-11-02, 788.751
2447696.546, 310191.777, 750.25036, 0.42, TF-11-02, 788.751
2447696.546, 310191.777, 749.95188, 0.44, TF-11-02, 788.751
2447696.546, 310191.777, 749.68292, 0.41, TF-11-02, 788.751
2447696.546, 310191.777, 749.41396, 0.41, TF-11-02, 788.751
2447696.546, 310191.777, 749.2434, 0.47, TF-11-02, 788.751
2447696.546, 310191.777, 748.93836, 0.44, TF-11-02, 788.751
2447696.546, 310191.777, 748.6694, 0.41, TF-11-02, 788.751
2447696.546, 310191.777, 748.39388, 0.4, TF-11-02, 788.751
2447696.546, 310191.777, 748.12164, 0.4, TF-11-02, 788.751
2447696.546, 310191.777, 747.92484, 0.36, TF-11-02, 788.751
2447731.22, 310194.651, 788.576, 0.61, TF-11-03, 788.576
2447731.22, 310194.651, 788.52024, 1.27, TF-11-03, 788.576
2447731.22, 310194.651, 788.26112, 0.9, TF-11-03, 788.576
2447731.22, 310194.651, 788.16928, 0.81, TF-11-03, 788.576
2447731.22, 310194.651, 787.90688, 0.85, TF-11-03, 788.576
2447731.22, 310194.651, 787.64448, 0.88, TF-11-03, 788.576
2447731.22, 310194.651, 787.55264, 0.91, TF-11-03, 788.576
2447731.22, 310194.651, 787.29024, 0.79, TF-11-03, 788.576
2447731.22, 310194.651, 787.02784, 0.67, TF-11-03, 788.576
2447731.22, 310194.651, 786.76544, 0.79, TF-11-03, 788.576
2447731.22, 310194.651, 786.48992, 0.75, TF-11-03, 788.576
2447731.22, 310194.651, 786.39152, 0.83, TF-11-03, 788.576
2447731.22, 310194.651, 786.22424, 0.67, TF-11-03, 788.576
2447731.22, 310194.651, 785.95856, 0.7, TF-11-03, 788.576
2447731.22, 310194.651, 785.86016, 0.81, TF-11-03, 788.576
2447731.22, 310194.651, 785.58136, 0.79, TF-11-03, 788.576
2447731.22, 310194.651, 785.29928, 0.73, TF-11-03, 788.576
2447731.22, 310194.651, 785.02048, 0.83, TF-11-03, 788.576
2447731.22, 310194.651, 784.90896, 0.73, TF-11-03, 788.576
2447731.22, 310194.651, 784.62688, 0.9, TF-11-03, 788.576
2447731.22, 310194.651, 784.3448, 1.12, TF-11-03, 788.576
2447731.22, 310194.651, 784.12504, 1.12, TF-11-03, 788.576
2447731.22, 310194.651, 783.84296, 3.3, TF-11-03, 788.576
2447731.22, 310194.651, 783.55104, 12.77, TF-11-03, 788.576
2447731.22, 310194.651, 783.43952, 17, TF-11-03, 788.576
2447731.22, 310194.651, 783.23944, 15.17, TF-11-03, 788.576
2447731.22, 310194.651, 782.97048, 54.47, TF-11-03, 788.576
2447731.22, 310194.651, 782.9016, 46.31, TF-11-03, 788.576
2447731.22, 310194.651, 782.62608, 88.4, TF-11-03, 788.576
2447731.22, 310194.651, 782.41616, 105.04, TF-11-03, 788.576
2447731.22, 310194.651, 782.12752, 93.27, TF-11-03, 788.576
2447731.22, 310194.651, 782.05536, 92.59, TF-11-03, 788.576
2447731.22, 310194.651, 781.84544, 54.84, TF-11-03, 788.576
2447731.22, 310194.651, 781.56336, 48.57, TF-11-03, 788.576
2447731.22, 310194.651, 781.38296, 23.73, TF-11-03, 788.576
2447731.22, 310194.651, 781.17304, 40.61, TF-11-03, 788.576
2447731.22, 310194.651, 780.99264, 27.83, TF-11-03, 788.576
2447731.22, 310194.651, 780.8844, 35.53, TF-11-03, 788.576
2447731.22, 310194.651, 780.59904, 16.03, TF-11-03, 788.576
2447731.22, 310194.651, 780.5236, 13.25, TF-11-03, 788.576
2447731.22, 310194.651, 780.37272, 13.82, TF-11-03, 788.576
2447731.22, 310194.651, 780.36944, 21.15, TF-11-03, 788.576
2447731.22, 310194.651, 780.10704, 13.76, TF-11-03, 788.576
2447731.22, 310194.651, 780.03488, 9.49, TF-11-03, 788.576
2447731.22, 310194.651, 779.92664, 10.35, TF-11-03, 788.576
2447731.22, 310194.651, 779.64456, 3.13, TF-11-03, 788.576
2447731.22, 310194.651, 779.46744, 3.41, TF-11-03, 788.576
2447731.22, 310194.651, 779.18536, 2.33, TF-11-03, 788.576

2447731.22, 310194.651, 778.86392, 0.71, TF-11-03, 788.576
2447731.22, 310194.651, 778.572, 0.61, TF-11-03, 788.576
2447731.22, 310194.651, 778.46376, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 778.28008, 0.68, TF-11-03, 788.576
2447731.22, 310194.651, 777.98488, 0.4, TF-11-03, 788.576
2447731.22, 310194.651, 777.68968, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 777.50928, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 777.21408, 0.54, TF-11-03, 788.576
2447731.22, 310194.651, 777.08616, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 776.91888, 0.76, TF-11-03, 788.576
2447731.22, 310194.651, 776.81392, 0.57, TF-11-03, 788.576
2447731.22, 310194.651, 776.74504, 0.7, TF-11-03, 788.576
2447731.22, 310194.651, 776.44, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 776.14808, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 776.07592, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 775.78728, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 775.60688, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 775.31824, 0.59, TF-11-03, 788.576
2447731.22, 310194.651, 775.10176, 0.45, TF-11-03, 788.576
2447731.22, 310194.651, 774.85248, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 774.7016, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 774.45888, 0.49, TF-11-03, 788.576
2447731.22, 310194.651, 774.20304, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 773.95376, 0.45, TF-11-03, 788.576
2447731.22, 310194.651, 773.94064, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 773.67496, 0.4, TF-11-03, 788.576
2447731.22, 310194.651, 773.3568, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 773.1108, 0.45, TF-11-03, 788.576
2447731.22, 310194.651, 772.7992, 0.45, TF-11-03, 788.576
2447731.22, 310194.651, 772.54664, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 772.3892, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 772.30064, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 772.0448, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 771.79224, 0.38, TF-11-03, 788.576
2447731.22, 310194.651, 771.5364, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 771.47408, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 771.192, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 771.1264, 0.39, TF-11-03, 788.576
2447731.22, 310194.651, 770.96568, 0.49, TF-11-03, 788.576
2447731.22, 310194.651, 770.72296, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 770.47368, 0.44, TF-11-03, 788.576
2447731.22, 310194.651, 770.1752, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 769.91608, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 769.65368, 0.41, TF-11-03, 788.576
2447731.22, 310194.651, 769.39128, 0.39, TF-11-03, 788.576
2447731.22, 310194.651, 769.32568, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 769.06656, 0.44, TF-11-03, 788.576
2447731.22, 310194.651, 768.80416, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 768.53848, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 768.44008, 0.53, TF-11-03, 788.576
2447731.22, 310194.651, 768.17768, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 767.91528, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 767.65288, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 767.41344, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 767.07888, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 766.81976, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 766.55736, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 766.29496, 0.64, TF-11-03, 788.576
2447731.22, 310194.651, 766.03584, 0.6, TF-11-03, 788.576
2447731.22, 310194.651, 765.77344, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 765.44544, 0.57, TF-11-03, 788.576
2447731.22, 310194.651, 765.17976, 0.61, TF-11-03, 788.576
2447731.22, 310194.651, 764.91736, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 764.65168, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 764.33024, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 764.02192, 0.53, TF-11-03, 788.576
2447731.22, 310194.651, 763.76608, 0.54, TF-11-03, 788.576
2447731.22, 310194.651, 763.50368, 0.57, TF-11-03, 788.576
2447731.22, 310194.651, 763.24128, 0.57, TF-11-03, 788.576
2447731.22, 310194.651, 763.1396, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 762.8116, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 762.54264, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 762.27696, 0.53, TF-11-03, 788.576
2447731.22, 310194.651, 762.11296, 0.62, TF-11-03, 788.576
2447731.22, 310194.651, 761.84728, 0.6, TF-11-03, 788.576
2447731.22, 310194.651, 761.5816, 0.59, TF-11-03, 788.576
2447731.22, 310194.651, 761.42744, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 761.0896, 0.59, TF-11-03, 788.576
2447731.22, 310194.651, 760.92232, 0.59, TF-11-03, 788.576
2447731.22, 310194.651, 760.68616, 0.48, TF-11-03, 788.576
2447731.22, 310194.651, 760.43688, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 760.11872, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 760.02032, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 759.75792, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 759.42664, 0.58, TF-11-03, 788.576
2447731.22, 310194.651, 759.16096, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 758.89528, 0.53, TF-11-03, 788.576
2447731.22, 310194.651, 758.62632, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 758.35736, 0.53, TF-11-03, 788.576
2447731.22, 310194.651, 758.09168, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 757.82272, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 757.5472, 0.54, TF-11-03, 788.576
2447731.22, 310194.651, 757.39304, 0.55, TF-11-03, 788.576
2447731.22, 310194.651, 757.1372, 0.49, TF-11-03, 788.576
2447731.22, 310194.651, 756.87808, 0.49, TF-11-03, 788.576
2447731.22, 310194.651, 756.62224, 0.44, TF-11-03, 788.576
2447731.22, 310194.651, 756.3664, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 756.104, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 755.94656, 0.45, TF-11-03, 788.576
2447731.22, 310194.651, 755.77928, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 755.51688, 0.48, TF-11-03, 788.576
2447731.22, 310194.651, 755.2512, 0.49, TF-11-03, 788.576

2447731.22, 310194.651, 754.9888, 0.41, TF-11-03, 788.576
2447731.22, 310194.651, 754.88384, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 754.61816, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 754.42136, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 754.2836, 0.4, TF-11-03, 788.576
2447731.22, 310194.651, 754.0212, 0.41, TF-11-03, 788.576
2447731.22, 310194.651, 753.82112, 0.46, TF-11-03, 788.576
2447731.22, 310194.651, 753.75552, 0.38, TF-11-03, 788.576
2447731.22, 310194.651, 753.66696, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 753.40128, 0.35, TF-11-03, 788.576
2447731.22, 310194.651, 753.12904, 0.38, TF-11-03, 788.576
2447731.22, 310194.651, 753.02736, 0.33, TF-11-03, 788.576
2447731.22, 310194.651, 752.76168, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 752.49272, 0.39, TF-11-03, 788.576
2447731.22, 310194.651, 752.15488, 0.37, TF-11-03, 788.576
2447731.22, 310194.651, 751.88592, 0.35, TF-11-03, 788.576
2447731.22, 310194.651, 751.62024, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 751.44968, 0.56, TF-11-03, 788.576
2447731.22, 310194.651, 751.1512, 0.49, TF-11-03, 788.576
2447731.22, 310194.651, 750.9052, 0.41, TF-11-03, 788.576
2447731.22, 310194.651, 750.63952, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 750.37384, 0.43, TF-11-03, 788.576
2447731.22, 310194.651, 750.10488, 0.47, TF-11-03, 788.576
2447731.22, 310194.651, 749.94088, 0.44, TF-11-03, 788.576
2447731.22, 310194.651, 749.7408, 0.54, TF-11-03, 788.576
2447731.22, 310194.651, 749.57024, 0.99, TF-11-03, 788.576
2447731.22, 310194.651, 749.30456, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 749.0356, 0.52, TF-11-03, 788.576
2447731.22, 310194.651, 748.76336, 0.51, TF-11-03, 788.576
2447731.22, 310194.651, 748.49768, 0.5, TF-11-03, 788.576
2447731.22, 310194.651, 748.3632, 0.53, TF-11-03, 788.576
2447776.968, 310189.774, 789.136, 0.63, TF-11-04, 789.136
2447776.968, 310189.774, 789.04744, 1.28, TF-11-04, 789.136
2447776.968, 310189.774, 788.81128, 0.52, TF-11-04, 789.136
2447776.968, 310189.774, 788.56528, 0.63, TF-11-04, 789.136
2447776.968, 310189.774, 788.41112, 0.81, TF-11-04, 789.136
2447776.968, 310189.774, 788.19464, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 787.8896, 0.48, TF-11-04, 789.136
2447776.968, 310189.774, 787.79776, 0.45, TF-11-04, 789.136
2447776.968, 310189.774, 787.56816, 0.58, TF-11-04, 789.136
2447776.968, 310189.774, 787.4796, 0.41, TF-11-04, 789.136
2447776.968, 310189.774, 787.42384, 0.56, TF-11-04, 789.136
2447776.968, 310189.774, 787.1024, 0.44, TF-11-04, 789.136
2447776.968, 310189.774, 787.03352, 0.4, TF-11-04, 789.136
2447776.968, 310189.774, 786.78096, 0.48, TF-11-04, 789.136
2447776.968, 310189.774, 786.49232, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 786.33488, 0.33, TF-11-04, 789.136
2447776.968, 310189.774, 786.23976, 0.39, TF-11-04, 789.136
2447776.968, 310189.774, 785.98392, 0.32, TF-11-04, 789.136
2447776.968, 310189.774, 785.88552, 0.29, TF-11-04, 789.136
2447776.968, 310189.774, 785.81992, 0.46, TF-11-04, 789.136
2447776.968, 310189.774, 785.528, 0.38, TF-11-04, 789.136
2447776.968, 310189.774, 785.27216, 0.35, TF-11-04, 789.136
2447776.968, 310189.774, 785.10488, 0.51, TF-11-04, 789.136
2447776.968, 310189.774, 785.00976, 0.26, TF-11-04, 789.136
2447776.968, 310189.774, 784.84576, 0.48, TF-11-04, 789.136
2447776.968, 310189.774, 784.55384, 0.41, TF-11-04, 789.136
2447776.968, 310189.774, 784.45544, 0.33, TF-11-04, 789.136
2447776.968, 310189.774, 784.3144, 0.32, TF-11-04, 789.136
2447776.968, 310189.774, 784.22584, 0.43, TF-11-04, 789.136
2447776.968, 310189.774, 783.94704, 0.37, TF-11-04, 789.136
2447776.968, 310189.774, 783.88472, 0.37, TF-11-04, 789.136
2447776.968, 310189.774, 783.78632, 0.27, TF-11-04, 789.136
2447776.968, 310189.774, 783.5272, 0.3, TF-11-04, 789.136
2447776.968, 310189.774, 783.2648, 0.54, TF-11-04, 789.136
2447776.968, 310189.774, 782.99912, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 782.70064, 0.38, TF-11-04, 789.136
2447776.968, 310189.774, 782.63504, 0.37, TF-11-04, 789.136
2447776.968, 310189.774, 782.53336, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 782.43168, 0.3, TF-11-04, 789.136
2447776.968, 310189.774, 782.33328, 0.42, TF-11-04, 789.136
2447776.968, 310189.774, 782.16272, 0.31, TF-11-04, 789.136
2447776.968, 310189.774, 781.89376, 0.42, TF-11-04, 789.136
2447776.968, 310189.774, 781.79208, 1.04, TF-11-04, 789.136
2447776.968, 310189.774, 781.51656, 0.4, TF-11-04, 789.136
2447776.968, 310189.774, 781.44768, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 781.346, 0.43, TF-11-04, 789.136
2447776.968, 310189.774, 781.26728, 0.62, TF-11-04, 789.136
2447776.968, 310189.774, 781.2148, 0.53, TF-11-04, 789.136
2447776.968, 310189.774, 781.04096, 1.58, TF-11-04, 789.136
2447776.968, 310189.774, 780.93928, 1.72, TF-11-04, 789.136
2447776.968, 310189.774, 780.8376, 0.91, TF-11-04, 789.136
2447776.968, 310189.774, 780.76872, 1.82, TF-11-04, 789.136
2447776.968, 310189.774, 780.67032, 0.86, TF-11-04, 789.136
2447776.968, 310189.774, 780.57192, 0.81, TF-11-04, 789.136
2447776.968, 310189.774, 780.31936, 1.92, TF-11-04, 789.136
2447776.968, 310189.774, 780.25376, 4.05, TF-11-04, 789.136
2447776.968, 310189.774, 780.15536, 4.09, TF-11-04, 789.136
2447776.968, 310189.774, 780.05696, 2.42, TF-11-04, 789.136
2447776.968, 310189.774, 779.788, 4.66, TF-11-04, 789.136
2447776.968, 310189.774, 779.61744, 2.13, TF-11-04, 789.136
2447776.968, 310189.774, 779.51248, 2.97, TF-11-04, 789.136
2447776.968, 310189.774, 779.4108, 2.67, TF-11-04, 789.136
2447776.968, 310189.774, 779.13528, 1.16, TF-11-04, 789.136
2447776.968, 310189.774, 779.0336, 2, TF-11-04, 789.136
2447776.968, 310189.774, 778.96472, 1.39, TF-11-04, 789.136
2447776.968, 310189.774, 778.86304, 1.81, TF-11-04, 789.136
2447776.968, 310189.774, 778.75808, 1.18, TF-11-04, 789.136
2447776.968, 310189.774, 778.68592, 2.48, TF-11-04, 789.136
2447776.968, 310189.774, 778.58424, 1.19, TF-11-04, 789.136
2447776.968, 310189.774, 778.41368, 5.22, TF-11-04, 789.136
2447776.968, 310189.774, 778.0988, 2.97, TF-11-04, 789.136

2447776.968, 310189.774, 777.92496, 1.26, TF-11-04, 789.136
2447776.968, 310189.774, 777.75112, 6.25, TF-11-04, 789.136
2447776.968, 310189.774, 777.54448, 8.07, TF-11-04, 789.136
2447776.968, 310189.774, 777.46248, 1.5, TF-11-04, 789.136
2447776.968, 310189.774, 777.3936, 1.96, TF-11-04, 789.136
2447776.968, 310189.774, 777.1312, 0.94, TF-11-04, 789.136
2447776.968, 310189.774, 777.02952, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 776.82944, 0.77, TF-11-04, 789.136
2447776.968, 310189.774, 776.6556, 2.46, TF-11-04, 789.136
2447776.968, 310189.774, 776.48176, 1.53, TF-11-04, 789.136
2447776.968, 310189.774, 776.19968, 2.47, TF-11-04, 789.136
2447776.968, 310189.774, 775.99304, 1.2, TF-11-04, 789.136
2447776.968, 310189.774, 775.70768, 6.57, TF-11-04, 789.136
2447776.968, 310189.774, 775.39608, 5.26, TF-11-04, 789.136
2447776.968, 310189.774, 775.18288, 1.07, TF-11-04, 789.136
2447776.968, 310189.774, 775.07792, 1.71, TF-11-04, 789.136
2447776.968, 310189.774, 774.79584, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 774.72368, 0.37, TF-11-04, 789.136
2447776.968, 310189.774, 774.4416, 0.4, TF-11-04, 789.136
2447776.968, 310189.774, 774.1628, 0.5, TF-11-04, 789.136
2447776.968, 310189.774, 773.88728, 0.49, TF-11-04, 789.136
2447776.968, 310189.774, 773.58224, 0.43, TF-11-04, 789.136
2447776.968, 310189.774, 773.32968, 0.4, TF-11-04, 789.136
2447776.968, 310189.774, 773.00824, 0.47, TF-11-04, 789.136
2447776.968, 310189.774, 772.82784, 0.32, TF-11-04, 789.136
2447776.968, 310189.774, 772.61136, 0.38, TF-11-04, 789.136
2447776.968, 310189.774, 772.43424, 0.31, TF-11-04, 789.136
2447776.968, 310189.774, 772.21776, 0.42, TF-11-04, 789.136
2447776.968, 310189.774, 772.14232, 0.31, TF-11-04, 789.136
2447776.968, 310189.774, 772.03408, 0.44, TF-11-04, 789.136
2447776.968, 310189.774, 771.92584, 0.31, TF-11-04, 789.136
2447776.968, 310189.774, 771.6372, 0.34, TF-11-04, 789.136
2447776.968, 310189.774, 771.45352, 0.39, TF-11-04, 789.136
2447776.968, 310189.774, 771.26656, 0.34, TF-11-04, 789.136
2447776.968, 310189.774, 771.15832, 0.44, TF-11-04, 789.136
2447776.968, 310189.774, 771.08944, 0.33, TF-11-04, 789.136
2447776.968, 310189.774, 770.7844, 0.38, TF-11-04, 789.136
2447776.968, 310189.774, 770.61056, 0.48, TF-11-04, 789.136
2447776.968, 310189.774, 770.50232, 0.35, TF-11-04, 789.136
2447776.968, 310189.774, 770.23336, 0.47, TF-11-04, 789.136
2447776.968, 310189.774, 770.13168, 0.23, TF-11-04, 789.136
2447776.968, 310189.774, 770.1284, 0.46, TF-11-04, 789.136
2447742.68, 310149.458, 789.095, 0.5, TF-11-05, 789.095
2447742.68, 310149.458, 789.03596, 1.11, TF-11-05, 789.095
2447742.68, 310149.458, 788.72436, 1.25, TF-11-05, 789.095
2447742.68, 310149.458, 788.48164, 0.94, TF-11-05, 789.095
2447742.68, 310149.458, 788.23236, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 788.0618, 0.92, TF-11-05, 789.095
2447742.68, 310149.458, 787.76004, 0.91, TF-11-05, 789.095
2447742.68, 310149.458, 787.57308, 0.95, TF-11-05, 789.095
2447742.68, 310149.458, 787.25492, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 786.9794, 0.77, TF-11-05, 789.095
2447742.68, 310149.458, 786.95644, 0.66, TF-11-05, 789.095
2447742.68, 310149.458, 786.63828, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 786.48084, 0.58, TF-11-05, 789.095
2447742.68, 310149.458, 786.225, 0.66, TF-11-05, 789.095
2447742.68, 310149.458, 786.06756, 0.76, TF-11-05, 789.095
2447742.68, 310149.458, 785.80844, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 785.54932, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 785.2902, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 785.12292, 0.65, TF-11-05, 789.095
2447742.68, 310149.458, 784.86052, 0.84, TF-11-05, 789.095
2447742.68, 310149.458, 784.6014, 0.81, TF-11-05, 789.095
2447742.68, 310149.458, 784.40132, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 784.13564, 1.46, TF-11-05, 789.095
2447742.68, 310149.458, 783.99132, 1.03, TF-11-05, 789.095
2447742.68, 310149.458, 783.78796, 3.82, TF-11-05, 789.095
2447742.68, 310149.458, 783.59116, 4.01, TF-11-05, 789.095
2447742.68, 310149.458, 783.32548, 8.32, TF-11-05, 789.095
2447742.68, 310149.458, 783.2566, 5.18, TF-11-05, 789.095
2447742.68, 310149.458, 783.15492, 4.97, TF-11-05, 789.095
2447742.68, 310149.458, 783.08932, 6.54, TF-11-05, 789.095
2447742.68, 310149.458, 782.82036, 7.72, TF-11-05, 789.095
2447742.68, 310149.458, 782.65308, 2.6, TF-11-05, 789.095
2447742.68, 310149.458, 782.44644, 2.33, TF-11-05, 789.095
2447742.68, 310149.458, 782.10532, 14.52, TF-11-05, 789.095
2447742.68, 310149.458, 782.00692, 19.53, TF-11-05, 789.095
2447742.68, 310149.458, 781.7314, 9.48, TF-11-05, 789.095
2447742.68, 310149.458, 781.52476, 8.87, TF-11-05, 789.095
2447742.68, 310149.458, 781.25252, 34.52, TF-11-05, 789.095
2447742.68, 310149.458, 781.07868, 55.76, TF-11-05, 789.095
2447742.68, 310149.458, 780.7802, 28.57, TF-11-05, 789.095
2447742.68, 310149.458, 780.53748, 17.92, TF-11-05, 789.095
2447742.68, 310149.458, 780.27836, 7.68, TF-11-05, 789.095
2447742.68, 310149.458, 780.0094, 16.34, TF-11-05, 789.095
2447742.68, 310149.458, 779.70764, 11.95, TF-11-05, 789.095
2447742.68, 310149.458, 779.53708, 24.99, TF-11-05, 789.095
2447742.68, 310149.458, 779.3698, 19.69, TF-11-05, 789.095
2447742.68, 310149.458, 779.26812, 26.3, TF-11-05, 789.095
2447742.68, 310149.458, 779.09756, 14.23, TF-11-05, 789.095
2447742.68, 310149.458, 778.82532, 14.83, TF-11-05, 789.095
2447742.68, 310149.458, 778.72364, 13.4, TF-11-05, 789.095
2447742.68, 310149.458, 778.65476, 5.42, TF-11-05, 789.095
2447742.68, 310149.458, 778.5498, 4.48, TF-11-05, 789.095
2447742.68, 310149.458, 778.27756, 4.09, TF-11-05, 789.095
2447742.68, 310149.458, 778.11028, 4.55, TF-11-05, 789.095
2447742.68, 310149.458, 777.83476, 3.08, TF-11-05, 789.095
2447742.68, 310149.458, 777.76588, 2.91, TF-11-05, 789.095
2447742.68, 310149.458, 777.48708, 0.99, TF-11-05, 789.095
2447742.68, 310149.458, 777.38868, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 777.11644, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 777.01476, 1.4, TF-11-05, 789.095

2447742.68, 310149.458, 776.84092, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 776.5654, 0.7, TF-11-05, 789.095
2447742.68, 310149.458, 776.2866, 0.78, TF-11-05, 789.095
2447742.68, 310149.458, 776.0406, 0.62, TF-11-05, 789.095
2447742.68, 310149.458, 775.75852, 0.7, TF-11-05, 789.095
2447742.68, 310149.458, 775.47972, 0.62, TF-11-05, 789.095
2447742.68, 310149.458, 775.19764, 0.77, TF-11-05, 789.095
2447742.68, 310149.458, 774.98444, 0.81, TF-11-05, 789.095
2447742.68, 310149.458, 774.73844, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 774.417, 0.6, TF-11-05, 789.095
2447742.68, 310149.458, 774.35468, 0.59, TF-11-05, 789.095
2447742.68, 310149.458, 774.08244, 0.66, TF-11-05, 789.095
2447742.68, 310149.458, 773.80364, 0.65, TF-11-05, 789.095
2447742.68, 310149.458, 773.52156, 0.69, TF-11-05, 789.095
2447742.68, 310149.458, 773.24276, 0.79, TF-11-05, 789.095
2447742.68, 310149.458, 773.06564, 0.89, TF-11-05, 789.095
2447742.68, 310149.458, 772.78028, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 772.46212, 0.5, TF-11-05, 789.095
2447742.68, 310149.458, 772.21284, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 771.9242, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 771.63884, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 771.37644, 0.74, TF-11-05, 789.095
2447742.68, 310149.458, 771.11732, 0.77, TF-11-05, 789.095
2447742.68, 310149.458, 771.02548, 0.94, TF-11-05, 789.095
2447742.68, 310149.458, 770.9566, 0.76, TF-11-05, 789.095
2447742.68, 310149.458, 770.6778, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 770.40228, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 770.3006, 0.78, TF-11-05, 789.095
2447742.68, 310149.458, 770.0218, 0.79, TF-11-05, 789.095
2447742.68, 310149.458, 769.74628, 0.92, TF-11-05, 789.095
2447742.68, 310149.458, 769.50356, 0.87, TF-11-05, 789.095
2447742.68, 310149.458, 769.22476, 0.88, TF-11-05, 789.095
2447742.68, 310149.458, 768.94268, 0.98, TF-11-05, 789.095
2447742.68, 310149.458, 768.73276, 1.03, TF-11-05, 789.095
2447742.68, 310149.458, 768.48348, 1.02, TF-11-05, 789.095
2447742.68, 310149.458, 768.19484, 0.97, TF-11-05, 789.095
2447742.68, 310149.458, 767.90292, 0.93, TF-11-05, 789.095
2447742.68, 310149.458, 767.59788, 0.88, TF-11-05, 789.095
2447742.68, 310149.458, 767.26988, 0.97, TF-11-05, 789.095
2447742.68, 310149.458, 766.97796, 0.91, TF-11-05, 789.095
2447742.68, 310149.458, 766.68276, 0.97, TF-11-05, 789.095
2447742.68, 310149.458, 766.39084, 0.92, TF-11-05, 789.095
2447742.68, 310149.458, 766.20388, 0.73, TF-11-05, 789.095
2447742.68, 310149.458, 765.9054, 0.79, TF-11-05, 789.095
2447742.68, 310149.458, 765.6102, 0.76, TF-11-05, 789.095
2447742.68, 310149.458, 765.30188, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 765.05588, 0.92, TF-11-05, 789.095
2447742.68, 310149.458, 764.75412, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 764.44252, 0.87, TF-11-05, 789.095
2447742.68, 310149.458, 764.18668, 0.89, TF-11-05, 789.095
2447742.68, 310149.458, 763.89476, 0.79, TF-11-05, 789.095
2447742.68, 310149.458, 763.77668, 0.59, TF-11-05, 789.095
2447742.68, 310149.458, 763.66188, 0.87, TF-11-05, 789.095
2447742.68, 310149.458, 763.40604, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 763.13052, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 762.9042, 0.81, TF-11-05, 789.095
2447742.68, 310149.458, 762.71396, 0.99, TF-11-05, 789.095
2447742.68, 310149.458, 762.40892, 0.83, TF-11-05, 789.095
2447742.68, 310149.458, 762.11044, 0.81, TF-11-05, 789.095
2447742.68, 310149.458, 761.8382, 0.8, TF-11-05, 789.095
2447742.68, 310149.458, 761.53316, 0.79, TF-11-05, 789.095
2447742.68, 310149.458, 761.25436, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 760.96572, 0.74, TF-11-05, 789.095
2447742.68, 310149.458, 760.67708, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 760.3786, 0.63, TF-11-05, 789.095
2447742.68, 310149.458, 760.07356, 0.63, TF-11-05, 789.095
2447742.68, 310149.458, 759.95876, 0.61, TF-11-05, 789.095
2447742.68, 310149.458, 759.657, 0.61, TF-11-05, 789.095
2447742.68, 310149.458, 759.35196, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 759.0502, 0.62, TF-11-05, 789.095
2447742.68, 310149.458, 758.78452, 0.65, TF-11-05, 789.095
2447742.68, 310149.458, 758.48932, 0.63, TF-11-05, 789.095
2447742.68, 310149.458, 758.3122, 0.7, TF-11-05, 789.095
2447742.68, 310149.458, 758.20068, 0.58, TF-11-05, 789.095
2447742.68, 310149.458, 758.12524, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 757.8202, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 757.7054, 0.65, TF-11-05, 789.095
2447742.68, 310149.458, 757.60044, 0.84, TF-11-05, 789.095
2447742.68, 310149.458, 757.40364, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 757.10188, 0.78, TF-11-05, 789.095
2447742.68, 310149.458, 756.79684, 0.74, TF-11-05, 789.095
2447742.68, 310149.458, 756.48852, 0.74, TF-11-05, 789.095
2447742.68, 310149.458, 756.21956, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 755.99324, 0.82, TF-11-05, 789.095
2447742.68, 310149.458, 755.72428, 0.7, TF-11-05, 789.095
2447742.68, 310149.458, 755.71444, 0.64, TF-11-05, 789.095
2447742.68, 310149.458, 755.43564, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 755.18636, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 754.96332, 0.85, TF-11-05, 789.095
2447742.68, 310149.458, 754.819, 0.73, TF-11-05, 789.095
2447742.68, 310149.458, 754.81244, 0.52, TF-11-05, 789.095
2447742.68, 310149.458, 754.72716, 0.71, TF-11-05, 789.095
2447742.68, 310149.458, 754.43852, 0.65, TF-11-05, 789.095
2447742.68, 310149.458, 754.34668, 0.85, TF-11-05, 789.095
2447742.68, 310149.458, 754.09412, 0.58, TF-11-05, 789.095
2447742.68, 310149.458, 753.93996, 0.73, TF-11-05, 789.095
2447742.68, 310149.458, 753.84484, 0.57, TF-11-05, 789.095
2447742.68, 310149.458, 753.74972, 0.77, TF-11-05, 789.095
2447742.68, 310149.458, 753.6874, 0.6, TF-11-05, 789.095
2447742.68, 310149.458, 753.43812, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 753.343, 0.7, TF-11-05, 789.095
2447742.68, 310149.458, 753.18556, 0.56, TF-11-05, 789.095

2447742.68, 310149.458, 753.09044, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 752.8346, 0.66, TF-11-05, 789.095
2447742.68, 310149.458, 752.67716, 0.59, TF-11-05, 789.095
2447742.68, 310149.458, 752.61156, 0.73, TF-11-05, 789.095
2447742.68, 310149.458, 752.359, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 752.26388, 0.63, TF-11-05, 789.095
2447742.68, 310149.458, 752.00804, 0.77, TF-11-05, 789.095
2447742.68, 310149.458, 751.75548, 0.66, TF-11-05, 789.095
2447742.68, 310149.458, 751.56852, 0.62, TF-11-05, 789.095
2447742.68, 310149.458, 751.29956, 0.69, TF-11-05, 789.095
2447742.68, 310149.458, 750.965, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 750.71244, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 750.391, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 750.13844, 0.69, TF-11-05, 789.095
2447742.68, 310149.458, 749.87932, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 749.81372, 0.76, TF-11-05, 789.095
2447742.68, 310149.458, 749.5546, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 749.29548, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 749.03636, 0.68, TF-11-05, 789.095
2447742.68, 310149.458, 748.78052, 0.72, TF-11-05, 789.095
2447742.68, 310149.458, 748.51812, 0.67, TF-11-05, 789.095
2447742.68, 310149.458, 748.26556, 0.6, TF-11-05, 789.095
2447742.68, 310149.458, 748.09172, 0.61, TF-11-05, 789.095
2447706.787, 310119.927, 788.326, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 788.26368, 0.89, TF-11-06, 788.326
2447706.787, 310119.927, 788.0964, 0.54, TF-11-06, 788.326
2447706.787, 310119.927, 787.998, 0.61, TF-11-06, 788.326
2447706.787, 310119.927, 787.79464, 0.44, TF-11-06, 788.326
2447706.787, 310119.927, 787.72904, 0.66, TF-11-06, 788.326
2447706.787, 310119.927, 787.63064, 0.35, TF-11-06, 788.326
2447706.787, 310119.927, 787.32888, 0.52, TF-11-06, 788.326
2447706.787, 310119.927, 787.2272, 0.65, TF-11-06, 788.326
2447706.787, 310119.927, 787.05664, 0.28, TF-11-06, 788.326
2447706.787, 310119.927, 786.95496, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 786.78768, 0.27, TF-11-06, 788.326
2447706.787, 310119.927, 786.686, 0.4, TF-11-06, 788.326
2447706.787, 310119.927, 786.47608, 0.39, TF-11-06, 788.326
2447706.787, 310119.927, 786.38752, 0.56, TF-11-06, 788.326
2447706.787, 310119.927, 786.112, 0.38, TF-11-06, 788.326
2447706.787, 310119.927, 785.78072, 0.47, TF-11-06, 788.326
2447706.787, 310119.927, 785.51176, 0.47, TF-11-06, 788.326
2447706.787, 310119.927, 785.34448, 0.22, TF-11-06, 788.326
2447706.787, 310119.927, 785.2428, 0.33, TF-11-06, 788.326
2447706.787, 310119.927, 785.1444, 0.27, TF-11-06, 788.326
2447706.787, 310119.927, 784.97056, 0.49, TF-11-06, 788.326
2447706.787, 310119.927, 784.65896, 0.36, TF-11-06, 788.326
2447706.787, 310119.927, 784.38344, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 784.10792, 0.41, TF-11-06, 788.326
2447706.787, 310119.927, 783.82912, 0.37, TF-11-06, 788.326
2447706.787, 310119.927, 783.72744, 0.42, TF-11-06, 788.326
2447706.787, 310119.927, 783.62248, 0.28, TF-11-06, 788.326
2447706.787, 310119.927, 783.41584, 0.34, TF-11-06, 788.326
2447706.787, 310119.927, 783.34368, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 783.14688, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 783.05832, 0.2, TF-11-06, 788.326
2447706.787, 310119.927, 782.95664, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 782.68768, 0.23, TF-11-06, 788.326
2447706.787, 310119.927, 782.586, 0.27, TF-11-06, 788.326
2447706.787, 310119.927, 782.47776, 0.21, TF-11-06, 788.326
2447706.787, 310119.927, 782.27768, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 782.16944, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 782.07104, 0.2, TF-11-06, 788.326
2447706.787, 310119.927, 781.79552, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 781.69056, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 781.62168, 0.16, TF-11-06, 788.326
2447706.787, 310119.927, 781.41176, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 781.3068, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 781.2412, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 781.13296, 0.24, TF-11-06, 788.326
2447706.787, 310119.927, 780.92304, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 780.75248, 0.19, TF-11-06, 788.326
2447706.787, 310119.927, 780.61144, 0.21, TF-11-06, 788.326
2447706.787, 310119.927, 780.32936, 0.1, TF-11-06, 788.326
2447706.787, 310119.927, 780.22768, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 780.12272, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 779.97184, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 779.90296, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 779.70288, 0.1, TF-11-06, 788.326
2447706.787, 310119.927, 779.59792, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 779.43064, 0.16, TF-11-06, 788.326
2447706.787, 310119.927, 779.21744, 0.28, TF-11-06, 788.326
2447706.787, 310119.927, 779.11576, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 778.90912, 0.22, TF-11-06, 788.326
2447706.787, 310119.927, 778.83696, 0.15, TF-11-06, 788.326
2447706.787, 310119.927, 778.732, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 778.63032, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 778.4204, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 778.31216, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 778.24328, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 778.13832, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 778.03008, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 777.85624, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 777.53808, 0.21, TF-11-06, 788.326
2447706.787, 310119.927, 777.25272, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 777.14776, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 776.93456, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 776.75744, 0.15, TF-11-06, 788.326
2447706.787, 310119.927, 776.71808, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 776.64592, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 776.54096, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 776.436, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 776.24904, 0.24, TF-11-06, 788.326

2447706.787, 310119.927, 776.1408, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 775.95712, 0.21, TF-11-06, 788.326
2447706.787, 310119.927, 775.80624, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 775.7144, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 775.4684, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 775.37984, 0.15, TF-11-06, 788.326
2447706.787, 310119.927, 775.28472, 0.02, TF-11-06, 788.326
2447706.787, 310119.927, 775.22568, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 775.13712, 0.02, TF-11-06, 788.326
2447706.787, 310119.927, 775.042, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 774.95016, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 774.70416, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 774.52376, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 774.45816, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 774.3696, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 774.27448, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 774.21544, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 774.03176, 0.02, TF-11-06, 788.326
2447706.787, 310119.927, 773.96944, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 773.78904, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 773.69392, 0, TF-11-06, 788.326
2447706.787, 310119.927, 773.63488, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 773.53976, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 773.37904, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 773.29376, 0.02, TF-11-06, 788.326
2447706.787, 310119.927, 773.20848, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 773.11992, 0.09, TF-11-06, 788.326
2447706.787, 310119.927, 773.03464, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 772.9756, 0.09, TF-11-06, 788.326
2447706.787, 310119.927, 772.89032, 0.04, TF-11-06, 788.326
2447706.787, 310119.927, 772.79848, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 772.73616, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 772.64432, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 772.55248, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 772.46392, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 772.4016, 0, TF-11-06, 788.326
2447706.787, 310119.927, 772.2212, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 772.16216, 0.04, TF-11-06, 788.326
2447706.787, 310119.927, 772.0736, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 771.86696, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 771.8112, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 771.7128, 0, TF-11-06, 788.326
2447706.787, 310119.927, 771.50944, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 771.34216, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 771.24376, 0.05, TF-11-06, 788.326
2447706.787, 310119.927, 770.97808, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 770.8764, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 770.77472, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 770.70584, 0.04, TF-11-06, 788.326
2447706.787, 310119.927, 770.60416, 0, TF-11-06, 788.326
2447706.787, 310119.927, 770.50576, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 770.29256, 0.02, TF-11-06, 788.326
2447706.787, 310119.927, 770.27616, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 770.02688, -0.03, TF-11-06, 788.326
2447706.787, 310119.927, 769.82352, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 769.72512, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 769.55784, 0.04, TF-11-06, 788.326
2447706.787, 310119.927, 769.45944, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 769.1872, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 769.0888, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 768.98712, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 768.88872, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 768.78704, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 768.5148, -0.38, TF-11-06, 788.326
2447706.787, 310119.927, 768.24584, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 768.14088, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 767.87192, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 767.77024, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 767.498, 0.08, TF-11-06, 788.326
2447706.787, 310119.927, 767.3996, 0.04, TF-11-06, 788.326
2447706.787, 310119.927, 767.29464, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 767.03224, -0.37, TF-11-06, 788.326
2447706.787, 310119.927, 766.76, -0.27, TF-11-06, 788.326
2447706.787, 310119.927, 766.48448, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 766.29096, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 766.19256, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 766.02528, 0.3, TF-11-06, 788.326
2447706.787, 310119.927, 765.92688, 0.07, TF-11-06, 788.326
2447706.787, 310119.927, 765.858, 0.16, TF-11-06, 788.326
2447706.787, 310119.927, 765.59232, 0.23, TF-11-06, 788.326
2447706.787, 310119.927, 765.49064, 0.01, TF-11-06, 788.326
2447706.787, 310119.927, 765.38896, 0.38, TF-11-06, 788.326
2447706.787, 310119.927, 765.12, 0.51, TF-11-06, 788.326
2447706.787, 310119.927, 765.01504, 0.41, TF-11-06, 788.326
2447706.787, 310119.927, 764.94944, 0.1, TF-11-06, 788.326
2447706.787, 310119.927, 764.7428, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 764.6772, 0.24, TF-11-06, 788.326
2447706.787, 310119.927, 764.57552, 0.06, TF-11-06, 788.326
2447706.787, 310119.927, 764.30328, 0.31, TF-11-06, 788.326
2447706.787, 310119.927, 764.19832, 0.32, TF-11-06, 788.326
2447706.787, 310119.927, 763.92936, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 763.83096, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 763.62432, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 763.55872, 0.03, TF-11-06, 788.326
2447706.787, 310119.927, 763.45376, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 763.35208, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 763.33896, 0.19, TF-11-06, 788.326
2447706.787, 310119.927, 763.1028, 0.22, TF-11-06, 788.326
2447706.787, 310119.927, 763.0372, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 762.9388, 0.32, TF-11-06, 788.326
2447706.787, 310119.927, 762.74528, 0.48, TF-11-06, 788.326
2447706.787, 310119.927, 762.57144, 0.3, TF-11-06, 788.326

2447706.787, 310119.927, 762.39432, 0.32, TF-11-06, 788.326
2447706.787, 310119.927, 762.19752, 0.13, TF-11-06, 788.326
2447706.787, 310119.927, 762.02696, 0.25, TF-11-06, 788.326
2447706.787, 310119.927, 761.8564, 0.14, TF-11-06, 788.326
2447706.787, 310119.927, 761.758, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 761.65632, 0.16, TF-11-06, 788.326
2447706.787, 310119.927, 761.48904, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 761.39064, 0.11, TF-11-06, 788.326
2447706.787, 310119.927, 761.22008, 0.16, TF-11-06, 788.326
2447706.787, 310119.927, 761.12168, 0.12, TF-11-06, 788.326
2447706.787, 310119.927, 761.01672, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 760.91832, 0.1, TF-11-06, 788.326
2447706.787, 310119.927, 760.74776, 0.28, TF-11-06, 788.326
2447706.787, 310119.927, 760.64608, 0.2, TF-11-06, 788.326
2447706.787, 310119.927, 760.37712, 0.22, TF-11-06, 788.326
2447706.787, 310119.927, 760.27544, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 760.12784, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 759.84576, 0.32, TF-11-06, 788.326
2447706.787, 310119.927, 759.68176, 0.38, TF-11-06, 788.326
2447706.787, 310119.927, 759.47184, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 759.16024, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 759.052, 0.24, TF-11-06, 788.326
2447706.787, 310119.927, 758.98312, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 758.87816, 0.22, TF-11-06, 788.326
2447706.787, 310119.927, 758.57312, 0.31, TF-11-06, 788.326
2447706.787, 310119.927, 758.2648, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 758.1992, 0.23, TF-11-06, 788.326
2447706.787, 310119.927, 758.15656, 0.31, TF-11-06, 788.326
2447706.787, 310119.927, 758.0188, 0.23, TF-11-06, 788.326
2447706.787, 310119.927, 757.91712, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 757.81872, 0.23, TF-11-06, 788.326
2447706.787, 310119.927, 757.55632, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 757.32016, 0.29, TF-11-06, 788.326
2447706.787, 310119.927, 757.21848, 0.24, TF-11-06, 788.326
2447706.787, 310119.927, 757.02824, 0.27, TF-11-06, 788.326
2447706.787, 310119.927, 756.97248, 0.21, TF-11-06, 788.326
2447706.787, 310119.927, 756.89704, 0.27, TF-11-06, 788.326
2447706.787, 310119.927, 756.8544, 0.17, TF-11-06, 788.326
2447706.787, 310119.927, 756.82816, 0.26, TF-11-06, 788.326
2447706.787, 310119.927, 756.76584, 0.18, TF-11-06, 788.326
2447706.787, 310119.927, 756.70352, 0.22, TF-11-06, 788.326
2447758.734, 310103.019, 787.952, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 787.92904, 0.98, TF-11-07, 787.952
2447758.734, 310103.019, 787.6568, 0.95, TF-11-07, 787.952
2447758.734, 310103.019, 787.56168, 1.17, TF-11-07, 787.952
2447758.734, 310103.019, 787.40752, 0.47, TF-11-07, 787.952
2447758.734, 310103.019, 787.25336, 0.36, TF-11-07, 787.952
2447758.734, 310103.019, 787.06968, 0.44, TF-11-07, 787.952
2447758.734, 310103.019, 786.97784, 1.23, TF-11-07, 787.952
2447758.734, 310103.019, 786.82368, 1.69, TF-11-07, 787.952
2447758.734, 310103.019, 786.58096, 1.1, TF-11-07, 787.952
2447758.734, 310103.019, 786.48912, 0.97, TF-11-07, 787.952
2447758.734, 310103.019, 786.33496, 1.32, TF-11-07, 787.952
2447758.734, 310103.019, 786.15128, 1.06, TF-11-07, 787.952
2447758.734, 310103.019, 786.09224, 1.42, TF-11-07, 787.952
2447758.734, 310103.019, 785.95776, 1.43, TF-11-07, 787.952
2447758.734, 310103.019, 785.87248, 0.5, TF-11-07, 787.952
2447758.734, 310103.019, 785.69536, 1.31, TF-11-07, 787.952
2447758.734, 310103.019, 785.63632, 1.08, TF-11-07, 787.952
2447758.734, 310103.019, 785.4592, 1.48, TF-11-07, 787.952
2447758.734, 310103.019, 785.30832, 1.13, TF-11-07, 787.952
2447758.734, 310103.019, 785.16072, 1.53, TF-11-07, 787.952
2447758.734, 310103.019, 785.07216, 0.84, TF-11-07, 787.952
2447758.734, 310103.019, 784.83272, 1.2, TF-11-07, 787.952
2447758.734, 310103.019, 784.68184, 0.41, TF-11-07, 787.952
2447758.734, 310103.019, 784.50472, 0.97, TF-11-07, 787.952
2447758.734, 310103.019, 784.35384, 1.05, TF-11-07, 787.952
2447758.734, 310103.019, 784.17344, 0.68, TF-11-07, 787.952
2447758.734, 310103.019, 784.1144, 0.99, TF-11-07, 787.952
2447758.734, 310103.019, 784.02584, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 783.87168, 0.81, TF-11-07, 787.952
2447758.734, 310103.019, 783.7864, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 783.69456, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 783.51744, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 783.27472, 1.05, TF-11-07, 787.952
2447758.734, 310103.019, 783.12056, 0.66, TF-11-07, 787.952
2447758.734, 310103.019, 782.9172, 1.86, TF-11-07, 787.952
2447758.734, 310103.019, 782.66464, 0.97, TF-11-07, 787.952
2447758.734, 310103.019, 782.51376, 2.11, TF-11-07, 787.952
2447758.734, 310103.019, 782.27104, 1.37, TF-11-07, 787.952
2447758.734, 310103.019, 782.1792, 1.42, TF-11-07, 787.952
2447758.734, 310103.019, 781.9332, 2.27, TF-11-07, 787.952
2447758.734, 310103.019, 781.84136, 2.82, TF-11-07, 787.952
2447758.734, 310103.019, 781.74952, 4.93, TF-11-07, 787.952
2447758.734, 310103.019, 781.65768, 1.22, TF-11-07, 787.952
2447758.734, 310103.019, 781.50352, 5.73, TF-11-07, 787.952
2447758.734, 310103.019, 781.25424, 1.67, TF-11-07, 787.952
2447758.734, 310103.019, 781.15912, 5.01, TF-11-07, 787.952
2447758.734, 310103.019, 781.00168, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 780.90656, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 780.818, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 780.72288, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 780.66056, 0.08, TF-11-07, 787.952
2447758.734, 310103.019, 780.408, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 780.3096, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 780.22104, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 780.12592, 0, TF-11-07, 787.952
2447758.734, 310103.019, 780.06032, 0.05, TF-11-07, 787.952
2447758.734, 310103.019, 779.96848, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 779.87336, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 779.61424, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 779.5552, 0.3, TF-11-07, 787.952

2447758.734, 310103.019, 779.27312, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 779.02056, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 778.95496, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 778.768, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 778.66632, 9.66, TF-11-07, 787.952
2447758.734, 310103.019, 778.51216, 4.98, TF-11-07, 787.952
2447758.734, 310103.019, 778.34816, 9.45, TF-11-07, 787.952
2447758.734, 310103.019, 778.15464, 2.63, TF-11-07, 787.952
2447758.734, 310103.019, 778.05952, 8.45, TF-11-07, 787.952
2447758.734, 310103.019, 777.9644, 1.22, TF-11-07, 787.952
2447758.734, 310103.019, 777.80368, 3.91, TF-11-07, 787.952
2447758.734, 310103.019, 777.70856, 1.76, TF-11-07, 787.952
2447758.734, 310103.019, 777.64296, 9.55, TF-11-07, 787.952
2447758.734, 310103.019, 777.45272, 1.88, TF-11-07, 787.952
2447758.734, 310103.019, 777.1936, 7.45, TF-11-07, 787.952
2447758.734, 310103.019, 777.0952, 0.29, TF-11-07, 787.952
2447758.734, 310103.019, 777.03288, 4.58, TF-11-07, 787.952
2447758.734, 310103.019, 776.93776, 6.19, TF-11-07, 787.952
2447758.734, 310103.019, 776.83936, 3.77, TF-11-07, 787.952
2447758.734, 310103.019, 776.58024, 4.94, TF-11-07, 787.952
2447758.734, 310103.019, 776.51792, 6.11, TF-11-07, 787.952
2447758.734, 310103.019, 776.33424, 3.28, TF-11-07, 787.952
2447758.734, 310103.019, 776.25224, 4.05, TF-11-07, 787.952
2447758.734, 310103.019, 776.16368, 2.89, TF-11-07, 787.952
2447758.734, 310103.019, 776.0128, 5.63, TF-11-07, 787.952
2447758.734, 310103.019, 775.92096, 4.86, TF-11-07, 787.952
2447758.734, 310103.019, 775.7668, 1.36, TF-11-07, 787.952
2447758.734, 310103.019, 775.57984, 1.84, TF-11-07, 787.952
2447758.734, 310103.019, 775.488, 0.63, TF-11-07, 787.952
2447758.734, 310103.019, 775.39288, 0.76, TF-11-07, 787.952
2447758.734, 310103.019, 775.29776, 0.6, TF-11-07, 787.952
2447758.734, 310103.019, 775.23544, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 775.14032, 0.38, TF-11-07, 787.952
2447758.734, 310103.019, 774.95008, 0.05, TF-11-07, 787.952
2447758.734, 310103.019, 774.88448, 0.07, TF-11-07, 787.952
2447758.734, 310103.019, 774.78936, 0.04, TF-11-07, 787.952
2447758.734, 310103.019, 774.69424, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 774.4384, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 774.37608, 0.3, TF-11-07, 787.952
2447758.734, 310103.019, 774.18584, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 774.09072, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 774.02512, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 773.93, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 773.83488, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 773.76928, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 773.67416, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 773.41832, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 773.31992, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 773.22808, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 773.16576, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 773.10672, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 773.07392, 0.08, TF-11-07, 787.952
2447758.734, 310103.019, 772.80168, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 772.73936, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 772.64424, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 772.54912, 0, TF-11-07, 787.952
2447758.734, 310103.019, 772.49008, 0.05, TF-11-07, 787.952
2447758.734, 310103.019, 772.39168, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 772.29984, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 772.04728, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 771.88656, 0.3, TF-11-07, 787.952
2447758.734, 310103.019, 771.6012, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 771.34864, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 771.25352, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 771.0928, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 771.00096, 0.23, TF-11-07, 787.952
2447758.734, 310103.019, 770.84024, 0.14, TF-11-07, 787.952
2447758.734, 310103.019, 770.74184, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 770.486, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 770.39416, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 770.29576, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 770.1416, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 769.88248, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 769.6168, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 769.52168, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 769.45936, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 769.2068, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 768.95096, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 768.85256, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 768.59672, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 768.5016, 0.31, TF-11-07, 787.952
2447758.734, 310103.019, 768.4032, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 768.34088, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 768.24576, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 768.04896, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 767.95056, 0.26, TF-11-07, 787.952
2447758.734, 310103.019, 767.88824, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 767.69144, 0.31, TF-11-07, 787.952
2447758.734, 310103.019, 767.43232, 0.31, TF-11-07, 787.952
2447758.734, 310103.019, 767.17648, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 767.07808, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 766.82224, 0.06, TF-11-07, 787.952
2447758.734, 310103.019, 766.72384, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 766.63856, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 766.39256, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 766.30072, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 766.20232, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 766.04488, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 765.85136, 0.23, TF-11-07, 787.952
2447758.734, 310103.019, 765.78576, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 765.49056, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 765.42496, 0.3, TF-11-07, 787.952

2447758.734, 310103.019, 765.23144, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 765.07072, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 764.80832, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 764.70992, 0.26, TF-11-07, 787.952
2447758.734, 310103.019, 764.5492, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 764.254, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 764.09, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 763.99488, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 763.7292, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 763.47008, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 763.20768, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 763.11256, 0.34, TF-11-07, 787.952
2447758.734, 310103.019, 762.92232, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 762.85672, 0.23, TF-11-07, 787.952
2447758.734, 310103.019, 762.76488, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 762.57464, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 762.4172, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 762.3188, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 762.06296, 0.31, TF-11-07, 787.952
2447758.734, 310103.019, 761.8104, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 761.712, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 761.548, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 761.39384, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 761.29544, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 761.10192, 0.23, TF-11-07, 787.952
2447758.734, 310103.019, 761.03632, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 760.9412, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 760.7444, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 760.68208, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 760.49184, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 760.39344, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 760.22944, 0.07, TF-11-07, 787.952
2447758.734, 310103.019, 760.06216, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 759.97032, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 759.7112, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 759.61608, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 759.55048, 0.34, TF-11-07, 787.952
2447758.734, 310103.019, 759.29136, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 759.19624, 0.39, TF-11-07, 787.952
2447758.734, 310103.019, 758.93384, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 758.83872, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 758.67144, 0.23, TF-11-07, 787.952
2447758.734, 310103.019, 758.47464, 0.33, TF-11-07, 787.952
2447758.734, 310103.019, 758.21552, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 758.04824, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 757.858, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 757.694, 0.2, TF-11-07, 787.952
2447758.734, 310103.019, 757.59888, 0.3, TF-11-07, 787.952
2447758.734, 310103.019, 757.50048, 0.07, TF-11-07, 787.952
2447758.734, 310103.019, 757.4316, 0.37, TF-11-07, 787.952
2447758.734, 310103.019, 757.2348, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 757.07408, 0.38, TF-11-07, 787.952
2447758.734, 310103.019, 756.86416, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 756.76904, 0.39, TF-11-07, 787.952
2447758.734, 310103.019, 756.67064, 0.26, TF-11-07, 787.952
2447758.734, 310103.019, 756.4148, 0.34, TF-11-07, 787.952
2447758.734, 310103.019, 756.22128, 0.36, TF-11-07, 787.952
2447758.734, 310103.019, 756.06056, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 755.96216, 0.43, TF-11-07, 787.952
2447758.734, 310103.019, 755.86376, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 755.69976, 0.26, TF-11-07, 787.952
2447758.734, 310103.019, 755.44392, 0.28, TF-11-07, 787.952
2447758.734, 310103.019, 755.34224, 0.32, TF-11-07, 787.952
2447758.734, 310103.019, 755.24712, 0.52, TF-11-07, 787.952
2447758.734, 310103.019, 755.152, 0.3, TF-11-07, 787.952
2447758.734, 310103.019, 755.07984, 0.36, TF-11-07, 787.952
2447758.734, 310103.019, 754.89288, 0.31, TF-11-07, 787.952
2447758.734, 310103.019, 754.7256, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 754.63376, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 754.53864, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 754.46976, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 754.37792, 0, TF-11-07, 787.952
2447758.734, 310103.019, 754.27952, 0.07, TF-11-07, 787.952
2447758.734, 310103.019, 754.1844, 0.03, TF-11-07, 787.952
2447758.734, 310103.019, 754.03024, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 753.92856, 0.07, TF-11-07, 787.952
2447758.734, 310103.019, 753.83344, 0.14, TF-11-07, 787.952
2447758.734, 310103.019, 753.76128, 0.04, TF-11-07, 787.952
2447758.734, 310103.019, 753.676, 0.08, TF-11-07, 787.952
2447758.734, 310103.019, 753.51856, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 753.42672, 0.02, TF-11-07, 787.952
2447758.734, 310103.019, 753.3316, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 753.07248, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 753.01344, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 752.71824, 0.26, TF-11-07, 787.952
2447758.734, 310103.019, 752.65592, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 752.5608, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 752.4624, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 752.3968, 0.25, TF-11-07, 787.952
2447758.734, 310103.019, 752.2984, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 752.20328, 0.09, TF-11-07, 787.952
2447758.734, 310103.019, 752.03928, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 751.872, 0.27, TF-11-07, 787.952
2447758.734, 310103.019, 751.61288, 0.08, TF-11-07, 787.952
2447758.734, 310103.019, 751.51776, 0.36, TF-11-07, 787.952
2447758.734, 310103.019, 751.3472, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 751.25536, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 751.15696, 0.78, TF-11-07, 787.952
2447758.734, 310103.019, 751.08808, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 750.98968, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 750.79288, 0.06, TF-11-07, 787.952
2447758.734, 310103.019, 750.56984, 0.2, TF-11-07, 787.952

2447758.734, 310103.019, 750.43864, 0.06, TF-11-07, 787.952
2447758.734, 310103.019, 750.34352, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 750.25168, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 749.99912, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 749.93352, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 749.74, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 749.48088, 0.11, TF-11-07, 787.952
2447758.734, 310103.019, 749.3792, 0.21, TF-11-07, 787.952
2447758.734, 310103.019, 749.31032, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 749.02496, 0.19, TF-11-07, 787.952
2447758.734, 310103.019, 748.86096, 0.12, TF-11-07, 787.952
2447758.734, 310103.019, 748.76256, 0.15, TF-11-07, 787.952
2447758.734, 310103.019, 748.66744, 0.1, TF-11-07, 787.952
2447758.734, 310103.019, 748.40504, 0.17, TF-11-07, 787.952
2447758.734, 310103.019, 748.33616, 0.24, TF-11-07, 787.952
2447758.734, 310103.019, 748.14264, 0.16, TF-11-07, 787.952
2447758.734, 310103.019, 747.97864, 0.18, TF-11-07, 787.952
2447758.734, 310103.019, 747.88024, 0.13, TF-11-07, 787.952
2447758.734, 310103.019, 747.71624, 0.14, TF-11-07, 787.952
2447758.734, 310103.019, 747.62112, 0.22, TF-11-07, 787.952
2447758.734, 310103.019, 747.45712, 0.14, TF-11-07, 787.952
2447758.734, 310103.019, 747.27672, 0.25, TF-11-07, 787.952
2447659.502, 310100.698, 787.784, 0.49, TF-11-08, 787.784
2447659.502, 310100.698, 787.68888, 0.95, TF-11-08, 787.784
2447659.502, 310100.698, 787.5216, 1.1, TF-11-08, 787.784
2447659.502, 310100.698, 787.21328, 0.96, TF-11-08, 787.784
2447659.502, 310100.698, 786.95416, 0.81, TF-11-08, 787.784
2447659.502, 310100.698, 786.79016, 0.73, TF-11-08, 787.784
2447659.502, 310100.698, 786.54416, 0.82, TF-11-08, 787.784
2447659.502, 310100.698, 786.26536, 0.85, TF-11-08, 787.784
2447659.502, 310100.698, 786.18992, 0.87, TF-11-08, 787.784
2447659.502, 310100.698, 786.16696, 0.14, TF-11-08, 787.784
2447659.502, 310100.698, 786.16368, 0.77, TF-11-08, 787.784
2447659.502, 310100.698, 785.88488, 0.71, TF-11-08, 787.784
2447659.502, 310100.698, 785.58968, 0.81, TF-11-08, 787.784
2447659.502, 310100.698, 785.324, 0.78, TF-11-08, 787.784
2447659.502, 310100.698, 785.16, 0.85, TF-11-08, 787.784
2447659.502, 310100.698, 784.89432, 0.6, TF-11-08, 787.784
2447659.502, 310100.698, 784.59256, 0.7, TF-11-08, 787.784
2447659.502, 310100.698, 784.53352, 0.77, TF-11-08, 787.784
2447659.502, 310100.698, 784.46792, 0.5, TF-11-08, 787.784
2447726.446, 310072.929, 788.284, 0.36, TF-11-09, 788.284
2447726.446, 310072.929, 788.2512, 2.25, TF-11-09, 788.284
2447726.446, 310072.929, 788.14952, 0.87, TF-11-09, 788.284
2447726.446, 310072.929, 787.874, 1.14, TF-11-09, 788.284
2447726.446, 310072.929, 787.5952, 0.54, TF-11-09, 788.284
2447726.446, 310072.929, 787.49352, 0.77, TF-11-09, 788.284
2447726.446, 310072.929, 787.31968, 0.51, TF-11-09, 788.284
2447726.446, 310072.929, 787.218, 1.13, TF-11-09, 788.284
2447726.446, 310072.929, 787.14912, 0.61, TF-11-09, 788.284
2447726.446, 310072.929, 787.04416, 0.7, TF-11-09, 788.284
2447726.446, 310072.929, 786.94248, 0.58, TF-11-09, 788.284
2447726.446, 310072.929, 786.8736, 0.75, TF-11-09, 788.284
2447726.446, 310072.929, 786.66368, 0.38, TF-11-09, 788.284
2447726.446, 310072.929, 786.40456, 1.65, TF-11-09, 788.284
2447726.446, 310072.929, 786.36192, 5.56, TF-11-09, 788.284
2447726.446, 310072.929, 786.19464, 3.25, TF-11-09, 788.284
2447726.446, 310072.929, 786.09624, 0.88, TF-11-09, 788.284
2447726.446, 310072.929, 785.82728, 7.21, TF-11-09, 788.284
2447726.446, 310072.929, 785.65672, 15.51, TF-11-09, 788.284
2447726.446, 310072.929, 785.3484, 11.22, TF-11-09, 788.284
2447726.446, 310072.929, 785.07616, 13.29, TF-11-09, 788.284
2447726.446, 310072.929, 784.97448, 12.31, TF-11-09, 788.284
2447726.446, 310072.929, 784.70224, 18.19, TF-11-09, 788.284
2447726.446, 310072.929, 784.63008, 20.09, TF-11-09, 788.284
2447726.446, 310072.929, 784.52512, 35.82, TF-11-09, 788.284
2447726.446, 310072.929, 784.21024, 28.91, TF-11-09, 788.284
2447726.446, 310072.929, 784.04624, 27.15, TF-11-09, 788.284
2447726.446, 310072.929, 783.94128, 32.83, TF-11-09, 788.284
2447726.446, 310072.929, 783.76744, 23.04, TF-11-09, 788.284
2447726.446, 310072.929, 783.59032, 29.39, TF-11-09, 788.284
2447726.446, 310072.929, 783.28528, 19.44, TF-11-09, 788.284
2447726.446, 310072.929, 783.02944, 16.56, TF-11-09, 788.284
2447726.446, 310072.929, 782.92448, 19.71, TF-11-09, 788.284
2447726.446, 310072.929, 782.75392, 12.93, TF-11-09, 788.284
2447726.446, 310072.929, 782.54728, 15.73, TF-11-09, 788.284
2447726.446, 310072.929, 782.37016, 3.49, TF-11-09, 788.284
2447726.446, 310072.929, 782.2652, 8.15, TF-11-09, 788.284
2447726.446, 310072.929, 782.15696, 6.97, TF-11-09, 788.284
2447726.446, 310072.929, 781.86832, 1.11, TF-11-09, 788.284
2447726.446, 310072.929, 781.76664, 0.74, TF-11-09, 788.284
2447726.446, 310072.929, 781.58952, 1.57, TF-11-09, 788.284
2447726.446, 310072.929, 781.52064, 0.1, TF-11-09, 788.284
2447726.446, 310072.929, 781.4124, 0.7, TF-11-09, 788.284
2447726.446, 310072.929, 781.30416, 1, TF-11-09, 788.284
2447726.446, 310072.929, 781.1992, 0.88, TF-11-09, 788.284
2447726.446, 310072.929, 780.91712, 1.29, TF-11-09, 788.284
2447726.446, 310072.929, 780.63176, 0.53, TF-11-09, 788.284
2447726.446, 310072.929, 780.52352, 1.81, TF-11-09, 788.284
2447726.446, 310072.929, 780.34312, 0.57, TF-11-09, 788.284
2447726.446, 310072.929, 780.24144, 0.95, TF-11-09, 788.284
2447726.446, 310072.929, 780.13648, 0.9, TF-11-09, 788.284
2447726.446, 310072.929, 780.06104, 0.43, TF-11-09, 788.284
2447726.446, 310072.929, 779.9528, 1.78, TF-11-09, 788.284
2447726.446, 310072.929, 779.90688, 1.37, TF-11-09, 788.284
2447726.446, 310072.929, 779.69696, 1.68, TF-11-09, 788.284
2447726.446, 310072.929, 779.62808, 0.99, TF-11-09, 788.284
2447726.446, 310072.929, 779.41816, 2.42, TF-11-09, 788.284
2447726.446, 310072.929, 779.34928, 6.23, TF-11-09, 788.284
2447726.446, 310072.929, 779.1328, 1.49, TF-11-09, 788.284
2447726.446, 310072.929, 778.8048, 1.69, TF-11-09, 788.284
2447726.446, 310072.929, 778.62768, 1.64, TF-11-09, 788.284

2447726.446, 310072.929, 778.45056, 3.16, TF-11-09, 788.284
2447726.446, 310072.929, 778.23408, 3.42, TF-11-09, 788.284
2447726.446, 310072.929, 778.12584, 2.16, TF-11-09, 788.284
2447726.446, 310072.929, 777.83392, 7.75, TF-11-09, 788.284
2447726.446, 310072.929, 777.6568, 7.97, TF-11-09, 788.284
2447726.446, 310072.929, 777.54528, 2.85, TF-11-09, 788.284
2447726.446, 310072.929, 777.44032, 3.74, TF-11-09, 788.284
2447726.446, 310072.929, 777.25664, 1.34, TF-11-09, 788.284
2447726.446, 310072.929, 777.15168, 1.64, TF-11-09, 788.284
2447726.446, 310072.929, 777.04344, 1.33, TF-11-09, 788.284
2447726.446, 310072.929, 776.86304, 2.87, TF-11-09, 788.284
2447726.446, 310072.929, 776.7548, 2.47, TF-11-09, 788.284
2447726.446, 310072.929, 776.722, 0.94, TF-11-09, 788.284
2447726.446, 310072.929, 776.6236, 1.75, TF-11-09, 788.284
2447726.446, 310072.929, 776.34152, 0.96, TF-11-09, 788.284
2447726.446, 310072.929, 776.23656, 0.66, TF-11-09, 788.284
2447726.446, 310072.929, 776.12504, 0.77, TF-11-09, 788.284
2447726.446, 310072.929, 776.05288, 1.82, TF-11-09, 788.284
2447726.446, 310072.929, 775.94464, 1.29, TF-11-09, 788.284
2447726.446, 310072.929, 775.72816, 2.51, TF-11-09, 788.284
2447726.446, 310072.929, 775.5412, 2.66, TF-11-09, 788.284
2447726.446, 310072.929, 775.25256, 1.8, TF-11-09, 788.284
2447726.446, 310072.929, 775.14104, 2.42, TF-11-09, 788.284
2447726.446, 310072.929, 775.0328, 1.68, TF-11-09, 788.284
2447726.446, 310072.929, 774.74088, 7.76, TF-11-09, 788.284
2447726.446, 310072.929, 774.6228, 6.65, TF-11-09, 788.284
2447726.446, 310072.929, 774.44896, 9.46, TF-11-09, 788.284
2447726.446, 310072.929, 774.15048, 2.49, TF-11-09, 788.284
2447726.446, 310072.929, 774.03896, 2.36, TF-11-09, 788.284
2447726.446, 310072.929, 773.9668, 1.21, TF-11-09, 788.284
2447726.446, 310072.929, 773.85528, 1.83, TF-11-09, 788.284
2447726.446, 310072.929, 773.74376, 1.48, TF-11-09, 788.284
2447726.446, 310072.929, 773.45512, 0.63, TF-11-09, 788.284
2447726.446, 310072.929, 773.44856, 0.46, TF-11-09, 788.284
2447726.446, 310072.929, 773.41576, 0.56, TF-11-09, 788.284
2447726.446, 310072.929, 773.24192, 0.39, TF-11-09, 788.284
2447726.446, 310072.929, 773.02216, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 772.91392, 0.23, TF-11-09, 788.284
2447726.446, 310072.929, 772.84176, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 772.52032, 0.33, TF-11-09, 788.284
2447726.446, 310072.929, 772.23496, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 772.16608, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 771.84792, 0.34, TF-11-09, 788.284
2447726.446, 310072.929, 771.56256, 0.24, TF-11-09, 788.284
2447726.446, 310072.929, 771.34608, 0.44, TF-11-09, 788.284
2447726.446, 310072.929, 771.06728, 0.43, TF-11-09, 788.284
2447726.446, 310072.929, 770.89016, 0.33, TF-11-09, 788.284
2447726.446, 310072.929, 770.818, 0.42, TF-11-09, 788.284
2447726.446, 310072.929, 770.50312, 0.29, TF-11-09, 788.284
2447726.446, 310072.929, 770.326, 0.3, TF-11-09, 788.284
2447726.446, 310072.929, 770.1948, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 770.15216, 0.26, TF-11-09, 788.284
2447726.446, 310072.929, 770.05704, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 769.99144, 0.22, TF-11-09, 788.284
2447726.446, 310072.929, 769.79136, 0.16, TF-11-09, 788.284
2447726.446, 310072.929, 769.7192, 0.22, TF-11-09, 788.284
2447726.446, 310072.929, 769.61752, 0.07, TF-11-09, 788.284
2447726.446, 310072.929, 769.51584, 0.27, TF-11-09, 788.284
2447726.446, 310072.929, 769.342, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 769.24032, 0.21, TF-11-09, 788.284
2447726.446, 310072.929, 769.0304, 0.12, TF-11-09, 788.284
2447726.446, 310072.929, 768.96152, 0.24, TF-11-09, 788.284
2447726.446, 310072.929, 768.85328, 0.15, TF-11-09, 788.284
2447726.446, 310072.929, 768.75816, 0.22, TF-11-09, 788.284
2447726.446, 310072.929, 768.58432, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 768.47936, 0.28, TF-11-09, 788.284
2447726.446, 310072.929, 768.19728, 0.15, TF-11-09, 788.284
2447726.446, 310072.929, 768.09232, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 767.98408, 0.12, TF-11-09, 788.284
2447726.446, 310072.929, 767.69544, 0.27, TF-11-09, 788.284
2447726.446, 310072.929, 767.5872, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 767.51176, 0.23, TF-11-09, 788.284
2447726.446, 310072.929, 767.29856, 0.09, TF-11-09, 788.284
2447726.446, 310072.929, 767.00664, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 766.90496, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 766.89512, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 766.88528, 0.22, TF-11-09, 788.284
2447726.446, 310072.929, 766.78688, 0.23, TF-11-09, 788.284
2447726.446, 310072.929, 766.718, 0.08, TF-11-09, 788.284
2447726.446, 310072.929, 766.61304, 0.25, TF-11-09, 788.284
2447726.446, 310072.929, 766.32768, 0.31, TF-11-09, 788.284
2447726.446, 310072.929, 766.1112, 0.27, TF-11-09, 788.284
2447726.446, 310072.929, 766.03904, 0.43, TF-11-09, 788.284
2447726.446, 310072.929, 765.9308, 0.33, TF-11-09, 788.284
2447726.446, 310072.929, 765.81928, 0.47, TF-11-09, 788.284
2447726.446, 310072.929, 765.64544, 0.35, TF-11-09, 788.284
2447726.446, 310072.929, 765.53392, 0.43, TF-11-09, 788.284
2447726.446, 310072.929, 765.42896, 0.21, TF-11-09, 788.284
2447726.446, 310072.929, 765.36008, 0.41, TF-11-09, 788.284
2447726.446, 310072.929, 765.1436, 0.32, TF-11-09, 788.284
2447726.446, 310072.929, 765.03536, 0.49, TF-11-09, 788.284
2447726.446, 310072.929, 764.9632, 0.4, TF-11-09, 788.284
2447726.446, 310072.929, 764.74344, 0.55, TF-11-09, 788.284
2447726.446, 310072.929, 764.6352, 0.3, TF-11-09, 788.284
2447726.446, 310072.929, 764.56304, 0.4, TF-11-09, 788.284
2447726.446, 310072.929, 764.27112, 0.43, TF-11-09, 788.284
2447726.446, 310072.929, 763.94968, 0.41, TF-11-09, 788.284
2447726.446, 310072.929, 763.87752, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 763.66432, 0.44, TF-11-09, 788.284
2447726.446, 310072.929, 763.46752, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 763.36912, 0.02, TF-11-09, 788.284
2447726.446, 310072.929, 763.2576, 0, TF-11-09, 788.284

2447726.446, 310072.929, 763.18216, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 763.08048, 0.24, TF-11-09, 788.284
2447726.446, 310072.929, 763.00504, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 762.8968, 0.2, TF-11-09, 788.284
2447726.446, 310072.929, 762.78856, 0.01, TF-11-09, 788.284
2447726.446, 310072.929, 762.6016, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 762.38512, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 762.30968, 0.21, TF-11-09, 788.284
2447726.446, 310072.929, 762.09648, 0.08, TF-11-09, 788.284
2447726.446, 310072.929, 761.98824, 0.02, TF-11-09, 788.284
2447726.446, 310072.929, 761.91608, 0.11, TF-11-09, 788.284
2447726.446, 310072.929, 761.80128, 0.1, TF-11-09, 788.284
2447726.446, 310072.929, 761.58152, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 761.2896, 0.05, TF-11-09, 788.284
2447726.446, 310072.929, 761.21744, 0.01, TF-11-09, 788.284
2447726.446, 310072.929, 761.10592, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 760.99768, 0.09, TF-11-09, 788.284
2447726.446, 310072.929, 760.81072, 0.16, TF-11-09, 788.284
2447726.446, 310072.929, 760.70248, 0.02, TF-11-09, 788.284
2447726.446, 310072.929, 760.52208, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 760.36136, 0.03, TF-11-09, 788.284
2447726.446, 310072.929, 760.2564, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 759.9612, 0.06, TF-11-09, 788.284
2447726.446, 310072.929, 759.89232, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 759.77752, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 759.67256, 0.03, TF-11-09, 788.284
2447726.446, 310072.929, 759.55776, 0.02, TF-11-09, 788.284
2447726.446, 310072.929, 759.48888, 0.14, TF-11-09, 788.284
2447726.446, 310072.929, 759.37736, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 759.26912, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 759.19368, 0.05, TF-11-09, 788.284
2447726.446, 310072.929, 758.97392, 0.02, TF-11-09, 788.284
2447726.446, 310072.929, 758.79352, 0.12, TF-11-09, 788.284
2447726.446, 310072.929, 758.68528, 0.08, TF-11-09, 788.284
2447726.446, 310072.929, 758.60984, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 758.49832, 0.07, TF-11-09, 788.284
2447726.446, 310072.929, 758.38352, 0.15, TF-11-09, 788.284
2447726.446, 310072.929, 758.09488, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 757.98336, 0.12, TF-11-09, 788.284
2447726.446, 310072.929, 757.91448, 0.18, TF-11-09, 788.284
2447726.446, 310072.929, 757.80296, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 757.62584, 0.03, TF-11-09, 788.284
2447726.446, 310072.929, 757.52416, 0.19, TF-11-09, 788.284
2447726.446, 310072.929, 757.30768, 0.13, TF-11-09, 788.284
2447726.446, 310072.929, 757.28144, 0.01, TF-11-09, 788.284
2447726.446, 310072.929, 757.18632, 0.21, TF-11-09, 788.284
2447726.446, 310072.929, 757.08136, 0.31, TF-11-09, 788.284
2447726.446, 310072.929, 757.01248, 0.15, TF-11-09, 788.284
2447726.446, 310072.929, 756.80584, 0.23, TF-11-09, 788.284
2447726.446, 310072.929, 756.7468, 0.17, TF-11-09, 788.284
2447726.446, 310072.929, 756.71728, 0.23, TF-11-09, 788.284
2447777.953, 310078.34, 788.054, 0.49, TF-11-10, 788.054
2447777.953, 310078.34, 787.9556, 7.78, TF-11-10, 788.054
2447777.953, 310078.34, 787.6932, 7.32, TF-11-10, 788.054
2447777.953, 310078.34, 787.50296, 5.78, TF-11-10, 788.054
2447777.953, 310078.34, 787.33568, 0.86, TF-11-10, 788.054
2447777.953, 310078.34, 787.05032, 1.49, TF-11-10, 788.054
2447777.953, 310078.34, 786.95192, 1.87, TF-11-10, 788.054
2447777.953, 310078.34, 786.68952, 6.09, TF-11-10, 788.054
2447777.953, 310078.34, 786.44024, 8.45, TF-11-10, 788.054
2447777.953, 310078.34, 786.37792, 8.66, TF-11-10, 788.054
2447777.953, 310078.34, 786.37136, 11.28, TF-11-10, 788.054
2447777.953, 310078.34, 786.04992, 10.98, TF-11-10, 788.054
2447777.953, 310078.34, 785.71536, 11.56, TF-11-10, 788.054
2447777.953, 310078.34, 785.46936, 11.96, TF-11-10, 788.054
2447777.953, 310078.34, 785.22008, 12.96, TF-11-10, 788.054
2447777.953, 310078.34, 784.96424, 11.49, TF-11-10, 788.054
2447777.953, 310078.34, 784.69856, 11.31, TF-11-10, 788.054
2447777.953, 310078.34, 784.49192, 15.26, TF-11-10, 788.054
2447777.953, 310078.34, 784.21968, 6.16, TF-11-10, 788.054
2447777.953, 310078.34, 784.04912, 4.6, TF-11-10, 788.054
2447777.953, 310078.34, 783.7408, 4.97, TF-11-10, 788.054
2447777.953, 310078.34, 783.67192, 4.68, TF-11-10, 788.054
2447777.953, 310078.34, 783.39968, 6.47, TF-11-10, 788.054
2447777.953, 310078.34, 783.28816, 4.64, TF-11-10, 788.054
2447777.953, 310078.34, 783.03888, 4.93, TF-11-10, 788.054
2447777.953, 310078.34, 782.88472, 3.41, TF-11-10, 788.054
2447777.953, 310078.34, 782.72728, 4.06, TF-11-10, 788.054
2447777.953, 310078.34, 782.47144, 1.82, TF-11-10, 788.054
2447777.953, 310078.34, 782.26808, 0.66, TF-11-10, 788.054
2447777.953, 310078.34, 782.068, 1.89, TF-11-10, 788.054
2447777.953, 310078.34, 782.0024, 1.47, TF-11-10, 788.054
2447777.953, 310078.34, 781.90072, 1.67, TF-11-10, 788.054
2447777.953, 310078.34, 781.80232, 0.89, TF-11-10, 788.054
2447777.953, 310078.34, 781.53664, 1.13, TF-11-10, 788.054
2447777.953, 310078.34, 781.43496, 0.84, TF-11-10, 788.054
2447777.953, 310078.34, 781.26112, 1.22, TF-11-10, 788.054
2447777.953, 310078.34, 781.06104, 1.01, TF-11-10, 788.054
2447777.953, 310078.34, 780.78224, 1.81, TF-11-10, 788.054
2447777.953, 310078.34, 780.61496, 2.76, TF-11-10, 788.054
2447777.953, 310078.34, 780.51, 2.69, TF-11-10, 788.054
2447777.953, 310078.34, 780.33944, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 780.1328, 0.3, TF-11-10, 788.054
2447777.953, 310078.34, 779.91304, 3, TF-11-10, 788.054
2447777.953, 310078.34, 779.81792, 1.97, TF-11-10, 788.054
2447777.953, 310078.34, 779.61128, 1.75, TF-11-10, 788.054
2447777.953, 310078.34, 779.444, 4.66, TF-11-10, 788.054
2447777.953, 310078.34, 779.33576, 4.15, TF-11-10, 788.054
2447777.953, 310078.34, 779.05696, 1.05, TF-11-10, 788.054
2447777.953, 310078.34, 778.87656, 3.7, TF-11-10, 788.054
2447777.953, 310078.34, 778.76832, 1.95, TF-11-10, 788.054
2447777.953, 310078.34, 778.4928, 1.34, TF-11-10, 788.054

2447777.953, 310078.34, 778.30912, 1.16, TF-11-10, 788.054
2447777.953, 310078.34, 778.02048, 3, TF-11-10, 788.054
2447777.953, 310078.34, 777.91552, 3.47, TF-11-10, 788.054
2447777.953, 310078.34, 777.69904, 2.68, TF-11-10, 788.054
2447777.953, 310078.34, 777.62688, 3.91, TF-11-10, 788.054
2447777.953, 310078.34, 777.41368, 2.69, TF-11-10, 788.054
2447777.953, 310078.34, 777.34152, 4.36, TF-11-10, 788.054
2447777.953, 310078.34, 777.02008, 1.68, TF-11-10, 788.054
2447777.953, 310078.34, 776.91184, 1.18, TF-11-10, 788.054
2447777.953, 310078.34, 776.81016, 1.49, TF-11-10, 788.054
2447777.953, 310078.34, 776.64944, 1.04, TF-11-10, 788.054
2447777.953, 310078.34, 776.55432, 1.23, TF-11-10, 788.054
2447777.953, 310078.34, 776.4592, 1.04, TF-11-10, 788.054
2447777.953, 310078.34, 776.39688, 1.52, TF-11-10, 788.054
2447777.953, 310078.34, 776.20008, 1.06, TF-11-10, 788.054
2447777.953, 310078.34, 776.02952, 2.05, TF-11-10, 788.054
2447777.953, 310078.34, 775.75728, 0.87, TF-11-10, 788.054
2447777.953, 310078.34, 775.6556, 1.19, TF-11-10, 788.054
2447777.953, 310078.34, 775.58672, 0.95, TF-11-10, 788.054
2447777.953, 310078.34, 775.3768, 1.31, TF-11-10, 788.054
2447777.953, 310078.34, 775.09144, 0.8, TF-11-10, 788.054
2447777.953, 310078.34, 774.90776, 0.95, TF-11-10, 788.054
2447777.953, 310078.34, 774.80608, 0.17, TF-11-10, 788.054
2447777.953, 310078.34, 774.5896, 0.2, TF-11-10, 788.054
2447777.953, 310078.34, 774.30096, 0.41, TF-11-10, 788.054
2447777.953, 310078.34, 774.08448, 0.34, TF-11-10, 788.054
2447777.953, 310078.34, 773.79912, 0.16, TF-11-10, 788.054
2447777.953, 310078.34, 773.72696, 0.23, TF-11-10, 788.054
2447777.953, 310078.34, 773.69416, 0.16, TF-11-10, 788.054
2447777.953, 310078.34, 773.61216, 0.22, TF-11-10, 788.054
2447777.953, 310078.34, 773.51376, 0.15, TF-11-10, 788.054
2447777.953, 310078.34, 773.34976, 0.18, TF-11-10, 788.054
2447777.953, 310078.34, 773.14968, 0.12, TF-11-10, 788.054
2447777.953, 310078.34, 772.97584, 0.23, TF-11-10, 788.054
2447777.953, 310078.34, 772.68392, 0.27, TF-11-10, 788.054
2447777.953, 310078.34, 772.40184, 0.27, TF-11-10, 788.054
2447777.953, 310078.34, 772.07384, 0.49, TF-11-10, 788.054
2447777.953, 310078.34, 772.00168, 0.56, TF-11-10, 788.054
2447777.953, 310078.34, 771.7852, 0.45, TF-11-10, 788.054
2447777.953, 310078.34, 771.49, 0.54, TF-11-10, 788.054
2447777.953, 310078.34, 771.20136, 0.47, TF-11-10, 788.054
2447777.953, 310078.34, 771.12592, 0.5, TF-11-10, 788.054
2447777.953, 310078.34, 770.79792, 0.29, TF-11-10, 788.054
2447777.953, 310078.34, 770.61424, 0.33, TF-11-10, 788.054
2447777.953, 310078.34, 770.57488, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 770.50928, 0.3, TF-11-10, 788.054
2447777.953, 310078.34, 770.24688, 0.36, TF-11-10, 788.054
2447777.953, 310078.34, 770.13864, 0.39, TF-11-10, 788.054
2447777.953, 310078.34, 769.85656, 0.29, TF-11-10, 788.054
2447777.953, 310078.34, 769.56464, 0.51, TF-11-10, 788.054
2447777.953, 310078.34, 769.27272, 0.47, TF-11-10, 788.054
2447777.953, 310078.34, 769.1612, 0.34, TF-11-10, 788.054
2447777.953, 310078.34, 768.86928, 0.4, TF-11-10, 788.054
2447777.953, 310078.34, 768.57736, 0.54, TF-11-10, 788.054
2447777.953, 310078.34, 768.28216, 0.47, TF-11-10, 788.054
2447777.953, 310078.34, 767.98696, 0.51, TF-11-10, 788.054
2447777.953, 310078.34, 767.69176, 0.52, TF-11-10, 788.054
2447777.953, 310078.34, 767.39656, 0.48, TF-11-10, 788.054
2447777.953, 310078.34, 767.05872, 0.68, TF-11-10, 788.054
2447777.953, 310078.34, 766.77664, 0.58, TF-11-10, 788.054
2447777.953, 310078.34, 766.488, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 766.1928, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 765.8648, 0.54, TF-11-10, 788.054
2447777.953, 310078.34, 765.5696, 0.65, TF-11-10, 788.054
2447777.953, 310078.34, 765.2744, 0.62, TF-11-10, 788.054
2447777.953, 310078.34, 764.97592, 0.59, TF-11-10, 788.054
2447777.953, 310078.34, 764.68072, 0.62, TF-11-10, 788.054
2447777.953, 310078.34, 764.49376, 0.48, TF-11-10, 788.054
2447777.953, 310078.34, 764.31008, 0.59, TF-11-10, 788.054
2447777.953, 310078.34, 764.00176, 0.52, TF-11-10, 788.054
2447777.953, 310078.34, 763.89352, 0.49, TF-11-10, 788.054
2447777.953, 310078.34, 763.71968, 0.66, TF-11-10, 788.054
2447777.953, 310078.34, 763.42776, 0.64, TF-11-10, 788.054
2447777.953, 310078.34, 763.31624, 0.54, TF-11-10, 788.054
2447777.953, 310078.34, 763.02104, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 762.72584, 0.73, TF-11-10, 788.054
2447777.953, 310078.34, 762.43064, 0.66, TF-11-10, 788.054
2447777.953, 310078.34, 762.13544, 0.57, TF-11-10, 788.054
2447777.953, 310078.34, 761.83696, 0.61, TF-11-10, 788.054
2447777.953, 310078.34, 761.5352, 0.51, TF-11-10, 788.054
2447777.953, 310078.34, 761.20064, 0.49, TF-11-10, 788.054
2447777.953, 310078.34, 760.90216, 0.5, TF-11-10, 788.054
2447777.953, 310078.34, 760.66928, 0.47, TF-11-10, 788.054
2447777.953, 310078.34, 760.49544, 0.37, TF-11-10, 788.054
2447777.953, 310078.34, 760.21664, 0.38, TF-11-10, 788.054
2447777.953, 310078.34, 759.92472, 0.42, TF-11-10, 788.054
2447777.953, 310078.34, 759.59016, 0.42, TF-11-10, 788.054
2447777.953, 310078.34, 759.29496, 0.42, TF-11-10, 788.054
2447777.953, 310078.34, 758.99648, 0.46, TF-11-10, 788.054
2447777.953, 310078.34, 758.698, 0.35, TF-11-10, 788.054
2447777.953, 310078.34, 758.39952, 0.44, TF-11-10, 788.054
2447777.953, 310078.34, 758.09776, 0.38, TF-11-10, 788.054
2447777.953, 310078.34, 757.80256, 0.38, TF-11-10, 788.054
2447777.953, 310078.34, 757.69104, 0.36, TF-11-10, 788.054
2447777.953, 310078.34, 757.37616, 0.45, TF-11-10, 788.054
2447777.953, 310078.34, 757.27776, 0.46, TF-11-10, 788.054
2447777.953, 310078.34, 756.98912, 0.44, TF-11-10, 788.054
2447777.953, 310078.34, 756.66112, 0.43, TF-11-10, 788.054
2447777.953, 310078.34, 756.36592, 0.41, TF-11-10, 788.054
2447777.953, 310078.34, 756.2872, 0.35, TF-11-10, 788.054
2447777.953, 310078.34, 756.06416, 0.55, TF-11-10, 788.054
2447777.953, 310078.34, 755.8444, 0.57, TF-11-10, 788.054

2447777.953, 310078.34, 755.54264, 0.38, TF-11-10, 788.054
2447777.953, 310078.34, 755.24088, 0.34, TF-11-10, 788.054
2447777.953, 310078.34, 754.93584, 0.37, TF-11-10, 788.054
2447777.953, 310078.34, 754.74888, 0.43, TF-11-10, 788.054
2447777.953, 310078.34, 754.63736, 0.34, TF-11-10, 788.054
2447777.953, 310078.34, 754.4504, 0.4, TF-11-10, 788.054
2447777.953, 310078.34, 754.44712, 0.33, TF-11-10, 788.054
2447777.953, 310078.34, 754.16504, 0.4, TF-11-10, 788.054
2447777.953, 310078.34, 753.83376, 0.37, TF-11-10, 788.054
2447777.953, 310078.34, 753.7616, 0.44, TF-11-10, 788.054
2447777.953, 310078.34, 753.4664, 0.42, TF-11-10, 788.054
2447777.953, 310078.34, 753.24336, 0.44, TF-11-10, 788.054
2447777.953, 310078.34, 753.13184, 0.36, TF-11-10, 788.054
2447777.953, 310078.34, 752.94816, 0.43, TF-11-10, 788.054
2447777.953, 310078.34, 752.75792, 0.34, TF-11-10, 788.054
2447777.953, 310078.34, 752.45616, 0.37, TF-11-10, 788.054
2447777.953, 310078.34, 752.1544, 0.45, TF-11-10, 788.054
2447777.953, 310078.34, 751.84936, 0.44, TF-11-10, 788.054
2447777.953, 310078.34, 751.5476, 0.33, TF-11-10, 788.054
2447777.953, 310078.34, 751.4328, 0.29, TF-11-10, 788.054
2447777.953, 310078.34, 751.22944, 0.41, TF-11-10, 788.054
2447777.953, 310078.34, 751.09168, 0.29, TF-11-10, 788.054
2447777.953, 310078.34, 750.81616, 0.4, TF-11-10, 788.054
2447777.953, 310078.34, 750.7112, 0.43, TF-11-10, 788.054
2447777.953, 310078.34, 750.42584, 0.39, TF-11-10, 788.054
2447777.953, 310078.34, 750.14376, 0.25, TF-11-10, 788.054
2447777.953, 310078.34, 749.842, 0.28, TF-11-10, 788.054
2447777.953, 310078.34, 749.50088, 0.32, TF-11-10, 788.054
2447777.953, 310078.34, 749.19584, 0.39, TF-11-10, 788.054
2447777.953, 310078.34, 749.08432, 0.29, TF-11-10, 788.054
2447777.953, 310078.34, 748.77928, 0.49, TF-11-10, 788.054
2447777.953, 310078.34, 748.70712, 0.54, TF-11-10, 788.054
2447777.953, 310078.34, 748.36272, 0.36, TF-11-10, 788.054
2447777.953, 310078.34, 748.0708, 0.38, TF-11-10, 788.054
2447777.953, 310078.34, 747.9888, 0.43, TF-11-10, 788.054
2447777.953, 310078.34, 747.73296, 0.35, TF-11-10, 788.054
2447654.54, 309609.122, 781.505, 2.04, TF-12-01, 781.505
2447654.54, 309609.122, 781.23276, 1.7, TF-12-01, 781.505
2447654.54, 309609.122, 781.0786, 4.57, TF-12-01, 781.505
2447654.54, 309609.122, 780.92772, 2.32, TF-12-01, 781.505
2447654.54, 309609.122, 780.685, 2.32, TF-12-01, 781.505
2447654.54, 309609.122, 780.439, 2.41, TF-12-01, 781.505
2447654.54, 309609.122, 780.193, 2.29, TF-12-01, 781.505
2447654.54, 309609.122, 779.947, 2.29, TF-12-01, 781.505
2447654.54, 309609.122, 779.78956, 2.39, TF-12-01, 781.505
2447654.54, 309609.122, 779.53372, 1.98, TF-12-01, 781.505
2447654.54, 309609.122, 779.25164, 1.88, TF-12-01, 781.505
2447654.54, 309609.122, 778.963, 1.93, TF-12-01, 781.505
2447654.54, 309609.122, 778.63172, 1.61, TF-12-01, 781.505
2447654.54, 309609.122, 778.57268, 1.56, TF-12-01, 781.505
2447654.54, 309609.122, 778.32668, 1.62, TF-12-01, 781.505
2447654.54, 309609.122, 778.08068, 1.53, TF-12-01, 781.505
2447654.54, 309609.122, 777.83468, 1.65, TF-12-01, 781.505
2447654.54, 309609.122, 777.59196, 1.53, TF-12-01, 781.505
2447654.54, 309609.122, 777.34268, 1.53, TF-12-01, 781.505
2447654.54, 309609.122, 777.09668, 1.53, TF-12-01, 781.505
2447654.54, 309609.122, 776.85068, 1.42, TF-12-01, 781.505
2447654.54, 309609.122, 776.60468, 1.51, TF-12-01, 781.505
2447654.54, 309609.122, 776.3554, 1.62, TF-12-01, 781.505
2447654.54, 309609.122, 776.03396, 1.46, TF-12-01, 781.505
2447654.54, 309609.122, 775.73548, 1.48, TF-12-01, 781.505
2447654.54, 309609.122, 775.43044, 1.49, TF-12-01, 781.505
2447654.54, 309609.122, 775.18444, 1.67, TF-12-01, 781.505
2447654.54, 309609.122, 774.93844, 1.57, TF-12-01, 781.505
2447654.54, 309609.122, 774.68916, 1.71, TF-12-01, 781.505
2447654.54, 309609.122, 774.59404, 1.59, TF-12-01, 781.505
2447654.54, 309609.122, 774.43988, 3.01, TF-12-01, 781.505
2447654.54, 309609.122, 774.27916, 3.11, TF-12-01, 781.505
2447654.54, 309609.122, 774.12172, 6.96, TF-12-01, 781.505
2447654.54, 309609.122, 773.93148, 6.38, TF-12-01, 781.505
2447654.54, 309609.122, 773.86916, 3.83, TF-12-01, 781.505
2447654.54, 309609.122, 773.61332, 6.49, TF-12-01, 781.505
2447654.54, 309609.122, 773.5182, 4.54, TF-12-01, 781.505
2447654.54, 309609.122, 773.26564, 9.11, TF-12-01, 781.505
2447654.54, 309609.122, 773.10492, 11.27, TF-12-01, 781.505
2447654.54, 309609.122, 772.84252, 8.41, TF-12-01, 781.505
2447654.54, 309609.122, 772.78348, 7.9, TF-12-01, 781.505
2447654.54, 309609.122, 772.54076, 7.63, TF-12-01, 781.505
2447654.54, 309609.122, 772.44892, 8.35, TF-12-01, 781.505
2447654.54, 309609.122, 772.19964, 64.81, TF-12-01, 781.505
2447654.54, 309609.122, 772.10452, 134.48, TF-12-01, 781.505
2447654.54, 309609.122, 771.9438, 80.07, TF-12-01, 781.505
2447654.54, 309609.122, 771.78308, 198.88, TF-12-01, 781.505
2447654.54, 309609.122, 771.62564, 206.37, TF-12-01, 781.505
2447654.54, 309609.122, 771.337, 27.69, TF-12-01, 781.505
2447654.54, 309609.122, 771.27468, 20.52, TF-12-01, 781.505
2447654.54, 309609.122, 771.08444, 11.15, TF-12-01, 781.505
2447654.54, 309609.122, 771.02212, 14.23, TF-12-01, 781.505
2447654.54, 309609.122, 770.927, 8.17, TF-12-01, 781.505
2447654.54, 309609.122, 770.76956, 9.1, TF-12-01, 781.505
2447654.54, 309609.122, 770.67444, 4.98, TF-12-01, 781.505
2447654.54, 309609.122, 770.5826, 4.74, TF-12-01, 781.505
2447654.54, 309609.122, 770.52028, 6.99, TF-12-01, 781.505
2447654.54, 309609.122, 770.33988, 2.32, TF-12-01, 781.505
2447654.54, 309609.122, 770.08732, 3.41, TF-12-01, 781.505
2447654.54, 309609.122, 769.9102, 14.06, TF-12-01, 781.505
2447654.54, 309609.122, 769.89708, 6.06, TF-12-01, 781.505
2447654.54, 309609.122, 769.80852, 21.87, TF-12-01, 781.505
2447654.54, 309609.122, 769.7954, 12.65, TF-12-01, 781.505
2447654.54, 309609.122, 769.64452, 29.46, TF-12-01, 781.505
2447654.54, 309609.122, 769.59532, 18.27, TF-12-01, 781.505
2447654.54, 309609.122, 769.52644, 19.26, TF-12-01, 781.505

```
2447654.54, 309609.122, 769.41164, 35.81, TF-12-01, 781.505
2447654.54, 309609.122, 769.30012, 15.32, TF-12-01, 781.505
2447654.54, 309609.122, 769.24108, 22.02, TF-12-01, 781.505
2447654.54, 309609.122, 769.17548, 15.46, TF-12-01, 781.505
2447654.54, 309609.122, 769.041, 4.72, TF-12-01, 781.505
2447654.54, 309609.122, 768.91964, 3.59, TF-12-01, 781.505
2447654.54, 309609.122, 768.84092, 4.98, TF-12-01, 781.505
2447654.54, 309609.122, 768.72612, 2.32, TF-12-01, 781.505
2447654.54, 309609.122, 768.47356, 2.28, TF-12-01, 781.505
2447654.54, 309609.122, 768.41452, 2.25, TF-12-01, 781.505
2447654.54, 309609.122, 768.28004, 1.61, TF-12-01, 781.505
2447654.54, 309609.122, 768.0406, 1.77, TF-12-01, 781.505
2447590.958, 309558.045, 782.149, -0.49, TF-12-02, 782.149
2447590.958, 309558.045, 781.87676, 0.53, TF-12-02, 782.149
2447590.958, 309558.045, 781.63404, 0.44, TF-12-02, 782.149
2447590.958, 309558.045, 781.38148, 0.41, TF-12-02, 782.149
2447590.958, 309558.045, 781.13548, 0.38, TF-12-02, 782.149
2447590.958, 309558.045, 780.88292, 0.42, TF-12-02, 782.149
2447590.958, 309558.045, 780.63364, 0.41, TF-12-02, 782.149
2447590.958, 309558.045, 780.31876, 0.41, TF-12-02, 782.149
2447590.958, 309558.045, 779.99404, 0.4, TF-12-02, 782.149
2447590.958, 309558.045, 779.69228, 0.45, TF-12-02, 782.149
2447590.958, 309558.045, 779.43972, 0.44, TF-12-02, 782.149
2447590.958, 309558.045, 779.1806, 0.37, TF-12-02, 782.149
2447590.958, 309558.045, 778.9182, 0.42, TF-12-02, 782.149
2447590.958, 309558.045, 778.66236, 0.45, TF-12-02, 782.149
2447590.958, 309558.045, 778.39996, 0.4, TF-12-02, 782.149
2447590.958, 309558.045, 778.13756, 0.51, TF-12-02, 782.149
2447590.958, 309558.045, 777.80628, 0.42, TF-12-02, 782.149
2447590.958, 309558.045, 777.54388, 0.39, TF-12-02, 782.149
2447590.958, 309558.045, 777.2782, 0.41, TF-12-02, 782.149
2447590.958, 309558.045, 777.03548, 0.44, TF-12-02, 782.149
2447590.958, 309558.045, 776.74028, 0.32, TF-12-02, 782.149
2447590.958, 309558.045, 776.48772, 0.4, TF-12-02, 782.149
2447590.958, 309558.045, 776.2286, 0.41, TF-12-02, 782.149
2447590.958, 309558.045, 775.96292, 0.43, TF-12-02, 782.149
2447590.958, 309558.045, 775.69396, 0.46, TF-12-02, 782.149
2447590.958, 309558.045, 775.425, 0.44, TF-12-02, 782.149
2447590.958, 309558.045, 775.15276, 0.45, TF-12-02, 782.149
2447590.958, 309558.045, 774.81492, 0.51, TF-12-02, 782.149
2447590.958, 309558.045, 774.54596, 1.17, TF-12-02, 782.149
2447590.958, 309558.045, 774.27372, 11.05, TF-12-02, 782.149
2447590.958, 309558.045, 773.99492, 10.98, TF-12-02, 782.149
2447590.958, 309558.045, 773.7358, 24, TF-12-02, 782.149
2447590.958, 309558.045, 773.49308, 47.05, TF-12-02, 782.149
2447590.958, 309558.045, 773.2438, 43.27, TF-12-02, 782.149
2447590.958, 309558.045, 772.97484, 44.38, TF-12-02, 782.149
2447590.958, 309558.045, 772.7026, 23.46, TF-12-02, 782.149
2447590.958, 309558.045, 772.43692, 38.67, TF-12-02, 782.149
2447590.958, 309558.045, 772.10236, 87.55, TF-12-02, 782.149
2447590.958, 309558.045, 771.83996, 89.37, TF-12-02, 782.149
2447590.958, 309558.045, 771.57428, 63.16, TF-12-02, 782.149
2447590.958, 309558.045, 771.31516, 70.99, TF-12-02, 782.149
2447590.958, 309558.045, 771.0626, 89.6, TF-12-02, 782.149
2447590.958, 309558.045, 770.81004, 77.26, TF-12-02, 782.149
2447590.958, 309558.045, 770.54436, 66.95, TF-12-02, 782.149
2447590.958, 309558.045, 770.24916, 77.8, TF-12-02, 782.149
2447590.958, 309558.045, 769.9966, 88.86, TF-12-02, 782.149
2447590.958, 309558.045, 769.74404, 45.48, TF-12-02, 782.149
2447590.958, 309558.045, 769.4718, 8.72, TF-12-02, 782.149
2447590.958, 309558.045, 769.19628, 2.58, TF-12-02, 782.149
2447590.958, 309558.045, 768.91748, 1.78, TF-12-02, 782.149
2447590.958, 309558.045, 768.63212, 0.97, TF-12-02, 782.149
2447590.958, 309558.045, 768.34676, 0.8, TF-12-02, 782.149
2447590.958, 309558.045, 768.06468, 0.9, TF-12-02, 782.149
2447590.958, 309558.045, 767.77276, 0.59, TF-12-02, 782.149
2447590.958, 309558.045, 767.49724, 0.7, TF-12-02, 782.149
2447590.958, 309558.045, 767.2086, 0.55, TF-12-02, 782.149
2447590.958, 309558.045, 766.96588, 0.8, TF-12-02, 782.149
2447590.958, 309558.045, 766.67724, 1.03, TF-12-02, 782.149
2447590.958, 309558.045, 766.41484, 0.9, TF-12-02, 782.149
2447590.958, 309558.045, 766.39188, 2.83, TF-12-02, 782.149
2447625.239, 309578.547, 783.03, 0.88, TF-12-03, 783.03
2447625.239, 309578.547, 782.96112, 0.83, TF-12-03, 783.03
2447625.239, 309578.547, 782.90208, 2.88, TF-12-03, 783.03
2447625.239, 309578.547, 782.64624, 2.85, TF-12-03, 783.03
2447625.239, 309578.547, 782.36416, 7.91, TF-12-03, 783.03
2447625.239, 309578.547, 782.21984, 11.29, TF-12-03, 783.03
2447625.239, 309578.547, 781.90168, 0.92, TF-12-03, 783.03
2447625.239, 309578.547, 781.75408, 1.61, TF-12-03, 783.03
2447625.239, 309578.547, 781.51792, 0.86, TF-12-03, 783.03
2447625.239, 309578.547, 781.23256, 0.74, TF-12-03, 783.03
2447625.239, 309578.547, 781.21944, 0.65, TF-12-03, 783.03
2447625.239, 309578.547, 781.18008, 0.77, TF-12-03, 783.03
2447625.239, 309578.547, 781.1768, 0.55, TF-12-03, 783.03
2447625.239, 309578.547, 781.062, 0.72, TF-12-03, 783.03
2447625.239, 309578.547, 780.85536, 0.46, TF-12-03, 783.03
2447625.239, 309578.547, 780.61264, 0.47, TF-12-03, 783.03
2447625.239, 309578.547, 780.36336, 0.48, TF-12-03, 783.03
2447625.239, 309578.547, 780.1108, 0.39, TF-12-03, 783.03
2447625.239, 309578.547, 779.8648, 0.38, TF-12-03, 783.03
2447625.239, 309578.547, 779.60896, 0.47, TF-12-03, 783.03
2447625.239, 309578.547, 779.3564, 0.36, TF-12-03, 783.03
2447625.239, 309578.547, 779.19896, 0.63, TF-12-03, 783.03
2447625.239, 309578.547, 779.04152, 0.43, TF-12-03, 783.03
2447625.239, 309578.547, 778.78896, 0.41, TF-12-03, 783.03
2447625.239, 309578.547, 778.68728, 0.49, TF-12-03, 783.03
2447625.239, 309578.547, 778.51344, 0.37, TF-12-03, 783.03
2447625.239, 309578.547, 778.3232, 0.61, TF-12-03, 783.03
2447625.239, 309578.547, 778.03784, 0.53, TF-12-03, 783.03
2447625.239, 309578.547, 777.83776, 0.49, TF-12-03, 783.03
2447625.239, 309578.547, 777.7492, 0.81, TF-12-03, 783.03
```

2447625.239, 309578.547, 777.42776, 0.39, TF-12-03, 783.03
2447625.239, 309578.547, 777.11944, 0.35, TF-12-03, 783.03
2447625.239, 309578.547, 777.0276, 0.49, TF-12-03, 783.03
2447625.239, 309578.547, 776.7816, 0.49, TF-12-03, 783.03
2447625.239, 309578.547, 776.716, 0.42, TF-12-03, 783.03
2447625.239, 309578.547, 776.62088, 0.58, TF-12-03, 783.03
2447625.239, 309578.547, 776.55856, 0.4, TF-12-03, 783.03
2447625.239, 309578.547, 776.46016, 0.55, TF-12-03, 783.03
2447625.239, 309578.547, 776.20432, 0.35, TF-12-03, 783.03
2447625.239, 309578.547, 775.9452, 0.35, TF-12-03, 783.03
2447625.239, 309578.547, 775.88288, 0.33, TF-12-03, 783.03
2447625.239, 309578.547, 775.62704, 0.43, TF-12-03, 783.03
2447625.239, 309578.547, 775.36792, 0.47, TF-12-03, 783.03
2447625.239, 309578.547, 775.11208, 0.47, TF-12-03, 783.03
2447625.239, 309578.547, 775.01368, 0.55, TF-12-03, 783.03
2447625.239, 309578.547, 774.75784, 0.44, TF-12-03, 783.03
2447625.239, 309578.547, 774.75128, 0.36, TF-12-03, 783.03
2447625.239, 309578.547, 774.70208, 0.51, TF-12-03, 783.03
2447625.239, 309578.547, 774.42656, 0.43, TF-12-03, 783.03
2447625.239, 309578.547, 774.26584, 0.37, TF-12-03, 783.03
2447625.239, 309578.547, 774.16416, 0.47, TF-12-03, 783.03
2447625.239, 309578.547, 773.88864, 0.43, TF-12-03, 783.03
2447625.239, 309578.547, 773.71808, 0.53, TF-12-03, 783.03
2447625.239, 309578.547, 773.54424, 0.43, TF-12-03, 783.03
2447625.239, 309578.547, 773.44584, 0.53, TF-12-03, 783.03
2447625.239, 309578.547, 773.16704, 0.52, TF-12-03, 783.03
2447625.239, 309578.547, 773.09488, 0.45, TF-12-03, 783.03
2447625.239, 309578.547, 772.98992, 0.58, TF-12-03, 783.03
2447625.239, 309578.547, 772.81608, 0.46, TF-12-03, 783.03
2447625.239, 309578.547, 772.53728, 0.63, TF-12-03, 783.03
2447625.239, 309578.547, 772.43232, 0.76, TF-12-03, 783.03
2447625.239, 309578.547, 772.15352, 0.59, TF-12-03, 783.03
2447625.239, 309578.547, 772.08464, 0.57, TF-12-03, 783.03
2447625.239, 309578.547, 771.87472, 0.84, TF-12-03, 783.03
2447625.239, 309578.547, 771.79928, 0.6, TF-12-03, 783.03
2447625.239, 309578.547, 771.55656, 0.71, TF-12-03, 783.03
2447625.239, 309578.547, 771.29744, 0.81, TF-12-03, 783.03
2447625.239, 309578.547, 771.19904, 0.92, TF-12-03, 783.03
2447625.239, 309578.547, 771.13672, 0.68, TF-12-03, 783.03
2447625.239, 309578.547, 770.8776, 0.68, TF-12-03, 783.03
2447625.239, 309578.547, 770.77264, 0.56, TF-12-03, 783.03
2447625.239, 309578.547, 770.60864, 0.58, TF-12-03, 783.03
2447625.239, 309578.547, 770.51024, 0.82, TF-12-03, 783.03
2447625.239, 309578.547, 770.44792, 0.54, TF-12-03, 783.03
2447625.239, 309578.547, 770.25112, 0.74, TF-12-03, 783.03
2447625.239, 309578.547, 769.91984, 0.61, TF-12-03, 783.03
2447625.239, 309578.547, 769.82472, 0.53, TF-12-03, 783.03
2447625.239, 309578.547, 769.66072, 0.61, TF-12-03, 783.03
2447625.239, 309578.547, 769.47048, 0.4, TF-12-03, 783.03
2447625.239, 309578.547, 769.22448, 0.48, TF-12-03, 783.03
2447625.239, 309578.547, 769.13264, 0.55, TF-12-03, 783.03
2447625.239, 309578.547, 768.94568, 0.41, TF-12-03, 783.03
2447659.817, 309574.514, 781.215, 0.84, TF-12-04, 781.215
2447659.817, 309574.514, 781.1822, 5.45, TF-12-04, 781.215
2447659.817, 309574.514, 780.9362, 1.69, TF-12-04, 781.215
2447659.817, 309574.514, 780.68364, 1.4, TF-12-04, 781.215
2447659.817, 309574.514, 780.43436, 1.43, TF-12-04, 781.215
2447659.817, 309574.514, 780.11292, 1.38, TF-12-04, 781.215
2447659.817, 309574.514, 779.86364, 1.46, TF-12-04, 781.215
2447659.817, 309574.514, 779.6078, 1.35, TF-12-04, 781.215
2447659.817, 309574.514, 779.3454, 1.45, TF-12-04, 781.215
2447659.817, 309574.514, 779.05348, 1.36, TF-12-04, 781.215
2447659.817, 309574.514, 778.76156, 1.42, TF-12-04, 781.215
2447659.817, 309574.514, 778.51884, 1.3, TF-12-04, 781.215
2447659.817, 309574.514, 778.27284, 1.42, TF-12-04, 781.215
2447659.817, 309574.514, 778.02356, 1.42, TF-12-04, 781.215
2447659.817, 309574.514, 777.77756, 1.48, TF-12-04, 781.215
2447659.817, 309574.514, 777.4594, 1.45, TF-12-04, 781.215
2447659.817, 309574.514, 777.21012, 1.46, TF-12-04, 781.215
2447659.817, 309574.514, 777.0494, 1.51, TF-12-04, 781.215
2447659.817, 309574.514, 776.79684, 1.33, TF-12-04, 781.215
2447659.817, 309574.514, 776.54428, 1.28, TF-12-04, 781.215
2447659.817, 309574.514, 776.28844, 1.4, TF-12-04, 781.215
2447659.817, 309574.514, 776.03588, 1.34, TF-12-04, 781.215
2447659.817, 309574.514, 775.78004, 1.2, TF-12-04, 781.215
2447659.817, 309574.514, 775.52748, 1.31, TF-12-04, 781.215
2447659.817, 309574.514, 775.26836, 1.34, TF-12-04, 781.215
2447659.817, 309574.514, 775.10436, 1.21, TF-12-04, 781.215
2447659.817, 309574.514, 774.84196, 1.73, TF-12-04, 781.215
2447659.817, 309574.514, 774.6714, 2.66, TF-12-04, 781.215
2447659.817, 309574.514, 774.40572, 14.81, TF-12-04, 781.215
2447659.817, 309574.514, 774.30732, 11.45, TF-12-04, 781.215
2447659.817, 309574.514, 774.10396, 11.87, TF-12-04, 781.215
2447659.817, 309574.514, 774.03508, 17.69, TF-12-04, 781.215
2447659.817, 309574.514, 773.86452, 16.29, TF-12-04, 781.215
2447659.817, 309574.514, 773.66116, 29.83, TF-12-04, 781.215
2447659.817, 309574.514, 773.59228, 12.29, TF-12-04, 781.215
2447659.817, 309574.514, 773.49388, 11.84, TF-12-04, 781.215
2447659.817, 309574.514, 773.38892, 20.62, TF-12-04, 781.215
2447659.817, 309574.514, 773.32004, 17.57, TF-12-04, 781.215
2447659.817, 309574.514, 773.22164, 21.87, TF-12-04, 781.215
2447659.817, 309574.514, 773.09372, 9.84, TF-12-04, 781.215
2447659.817, 309574.514, 773.03468, 14.79, TF-12-04, 781.215
2447659.817, 309574.514, 772.77556, 6.24, TF-12-04, 781.215
2447659.817, 309574.514, 772.67716, 12.19, TF-12-04, 781.215
2447659.817, 309574.514, 772.61156, 7.95, TF-12-04, 781.215
2447659.817, 309574.514, 772.34588, 11.5, TF-12-04, 781.215
2447659.817, 309574.514, 772.2442, 6.69, TF-12-04, 781.215
2447659.817, 309574.514, 771.96868, 21.21, TF-12-04, 781.215
2447659.817, 309574.514, 771.86372, 11.05, TF-12-04, 781.215
2447659.817, 309574.514, 771.69316, 12.12, TF-12-04, 781.215
2447659.817, 309574.514, 771.59804, 60.25, TF-12-04, 781.215

2447659.817, 309574.514, 771.43404, 18.09, TF-12-04, 781.215
2447659.817, 309574.514, 771.27004, 29.39, TF-12-04, 781.215
2447659.817, 309574.514, 771.00436, 16.07, TF-12-04, 781.215
2447659.817, 309574.514, 770.84036, 24.98, TF-12-04, 781.215
2447659.817, 309574.514, 770.64356, 14.55, TF-12-04, 781.215
2447659.817, 309574.514, 770.31228, 37.02, TF-12-04, 781.215
2447659.817, 309574.514, 770.145, 38.75, TF-12-04, 781.215
2447659.817, 309574.514, 769.86948, 13.8, TF-12-04, 781.215
2447659.817, 309574.514, 769.6202, 6.77, TF-12-04, 781.215
2447659.817, 309574.514, 769.36764, 3.37, TF-12-04, 781.215
2447659.817, 309574.514, 769.1118, 3.58, TF-12-04, 781.215
2447659.817, 309574.514, 768.95108, 3.38, TF-12-04, 781.215
2447659.817, 309574.514, 768.85268, 2.33, TF-12-04, 781.215
2447659.817, 309574.514, 768.5214, 1.73, TF-12-04, 781.215
2447659.817, 309574.514, 768.41972, 1.56, TF-12-04, 781.215
2447659.817, 309574.514, 768.15076, 1.62, TF-12-04, 781.215
2447659.817, 309574.514, 767.88836, 1.58, TF-12-04, 781.215
2447659.817, 309574.514, 767.62924, 1.51, TF-12-04, 781.215
2447659.817, 309574.514, 767.36356, 1.52, TF-12-04, 781.215
2447659.817, 309574.514, 767.32748, 1.52, TF-12-04, 781.215
2447612.927, 309534.511, 782.424, 1.62, TF-12-05, 782.424
2447612.927, 309534.511, 782.35184, 2.18, TF-12-05, 782.424
2447612.927, 309534.511, 782.27968, 1.64, TF-12-05, 782.424
2447612.927, 309534.511, 781.97792, 1.72, TF-12-05, 782.424
2447612.927, 309534.511, 781.8664, 1.93, TF-12-05, 782.424
2447612.927, 309534.511, 781.57776, 1.79, TF-12-05, 782.424
2447612.927, 309534.511, 781.32848, 1.71, TF-12-05, 782.424
2447612.927, 309534.511, 781.03984, 1.62, TF-12-05, 782.424
2447612.927, 309534.511, 780.74792, 1.6, TF-12-05, 782.424
2447612.927, 309534.511, 780.45928, 1.55, TF-12-05, 782.424
2447612.927, 309534.511, 780.11816, 1.65, TF-12-05, 782.424
2447612.927, 309534.511, 779.83608, 1.37, TF-12-05, 782.424
2447612.927, 309534.511, 779.54744, 1.59, TF-12-05, 782.424
2447612.927, 309534.511, 779.36704, 1.62, TF-12-05, 782.424
2447612.927, 309534.511, 779.0784, 1.53, TF-12-05, 782.424
2447612.927, 309534.511, 778.7832, 1.55, TF-12-05, 782.424
2447612.927, 309534.511, 778.49128, 1.49, TF-12-05, 782.424
2447612.927, 309534.511, 778.23216, 1.58, TF-12-05, 782.424
2447612.927, 309534.511, 777.94352, 1.54, TF-12-05, 782.424
2447612.927, 309534.511, 777.64832, 1.58, TF-12-05, 782.424
2447612.927, 309534.511, 777.38264, 1.61, TF-12-05, 782.424
2447612.927, 309534.511, 777.04152, 1.57, TF-12-05, 782.424
2447612.927, 309534.511, 776.766, 1.55, TF-12-05, 782.424
2447612.927, 309534.511, 776.4708, 1.52, TF-12-05, 782.424
2447612.927, 309534.511, 776.17888, 1.55, TF-12-05, 782.424
2447612.927, 309534.511, 775.89024, 1.41, TF-12-05, 782.424
2447612.927, 309534.511, 775.59832, 1.63, TF-12-05, 782.424
2447612.927, 309534.511, 775.34248, 1.53, TF-12-05, 782.424
2447612.927, 309534.511, 775.23096, 1.46, TF-12-05, 782.424
2447612.927, 309534.511, 774.93248, 1.99, TF-12-05, 782.424
2447612.927, 309534.511, 774.85704, 3.39, TF-12-05, 782.424
2447612.927, 309534.511, 774.7488, 3.78, TF-12-05, 782.424
2447612.927, 309534.511, 774.63728, 2.65, TF-12-05, 782.424
2447612.927, 309534.511, 774.38144, 4.53, TF-12-05, 782.424
2447612.927, 309534.511, 774.15184, 26.7, TF-12-05, 782.424
2447612.927, 309534.511, 773.93864, 52.32, TF-12-05, 782.424
2447612.927, 309534.511, 773.65656, 51.87, TF-12-05, 782.424
2447612.927, 309534.511, 773.47288, 22.38, TF-12-05, 782.424
2447612.927, 309534.511, 773.1744, 30.22, TF-12-05, 782.424
2447612.927, 309534.511, 773.09896, 51.32, TF-12-05, 782.424
2447612.927, 309534.511, 772.98744, 51.42, TF-12-05, 782.424
2447612.927, 309534.511, 772.88248, 29.06, TF-12-05, 782.424
2447612.927, 309534.511, 772.80704, 38.55, TF-12-05, 782.424
2447612.927, 309534.511, 772.69552, 25.42, TF-12-05, 782.424
2447612.927, 309534.511, 772.50856, 80.66, TF-12-05, 782.424
2447612.927, 309534.511, 772.21336, 24.47, TF-12-05, 782.424
2447612.927, 309534.511, 772.03296, 108.22, TF-12-05, 782.424
2447612.927, 309534.511, 771.92144, 81.96, TF-12-05, 782.424
2447612.927, 309534.511, 771.73776, 105.12, TF-12-05, 782.424
2447612.927, 309534.511, 771.55408, 50.04, TF-12-05, 782.424
2447612.927, 309534.511, 771.44256, 85.24, TF-12-05, 782.424
2447612.927, 309534.511, 771.19984, 54.8, TF-12-05, 782.424
2447612.927, 309534.511, 771.16376, 49.65, TF-12-05, 782.424
2447612.927, 309534.511, 770.86528, 73.98, TF-12-05, 782.424
2447612.927, 309534.511, 770.698, 88.11, TF-12-05, 782.424
2447612.927, 309534.511, 770.42248, 88.26, TF-12-05, 782.424
2447612.927, 309534.511, 770.31752, 89.12, TF-12-05, 782.424
2447612.927, 309534.511, 770.24536, 66.55, TF-12-05, 782.424
2447612.927, 309534.511, 769.96328, 54.58, TF-12-05, 782.424
2447612.927, 309534.511, 769.67792, 12.46, TF-12-05, 782.424
2447612.927, 309534.511, 769.39256, 4.03, TF-12-05, 782.424
2447612.927, 309534.511, 769.28432, 3.06, TF-12-05, 782.424
2447612.927, 309534.511, 769.00552, 3.34, TF-12-05, 782.424
2447612.927, 309534.511, 768.7136, 2, TF-12-05, 782.424
2447612.927, 309534.511, 768.55944, 1.81, TF-12-05, 782.424
2447612.927, 309534.511, 768.31016, 1.83, TF-12-05, 782.424
2447612.927, 309534.511, 768.06744, 1.95, TF-12-05, 782.424
2447612.927, 309534.511, 767.7624, 1.83, TF-12-05, 782.424
2447612.927, 309534.511, 767.45408, 1.75, TF-12-05, 782.424
2447612.927, 309534.511, 767.34584, 2.22, TF-12-05, 782.424
2447612.927, 309534.511, 767.06048, 1.88, TF-12-05, 782.424
2447612.927, 309534.511, 766.762, 1.82, TF-12-05, 782.424
2447612.927, 309534.511, 766.49632, 1.69, TF-12-05, 782.424
2447612.927, 309534.511, 766.19456, 1.73, TF-12-05, 782.424
2447612.927, 309534.511, 765.88952, 1.65, TF-12-05, 782.424
2447612.927, 309534.511, 765.58776, 1.86, TF-12-05, 782.424
2447612.927, 309534.511, 765.29256, 1.84, TF-12-05, 782.424
2447612.927, 309534.511, 765.2532, 1.72, TF-12-05, 782.424
2447594.94, 309515.641, 783.726, 1.32, TF-12-06, 783.726
2447594.94, 309515.641, 783.65384, 3.14, TF-12-06, 783.726
2447594.94, 309515.641, 783.48, 1.73, TF-12-06, 783.726
2447594.94, 309515.641, 783.22416, 1.7, TF-12-06, 783.726

2447594.94, 309515.641, 783.01752, 1.7, TF-12-06, 783.726
2447594.94, 309515.641, 782.94864, 2.12, TF-12-06, 783.726
2447594.94, 309515.641, 782.73544, 1.72, TF-12-06, 783.726
2447594.94, 309515.641, 782.66984, 2.27, TF-12-06, 783.726
2447594.94, 309515.641, 782.33856, 1.51, TF-12-06, 783.726
2447594.94, 309515.641, 782.04664, 1.51, TF-12-06, 783.726
2447594.94, 309515.641, 781.79408, 1.57, TF-12-06, 783.726
2447594.94, 309515.641, 781.54808, 1.39, TF-12-06, 783.726
2447594.94, 309515.641, 781.35784, 1.29, TF-12-06, 783.726
2447594.94, 309515.641, 781.102, 1.45, TF-12-06, 783.726
2447594.94, 309515.641, 780.83304, 1.43, TF-12-06, 783.726
2447594.94, 309515.641, 780.57392, 1.42, TF-12-06, 783.726
2447594.94, 309515.641, 780.31808, 1.46, TF-12-06, 783.726
2447594.94, 309515.641, 780.03272, 1.45, TF-12-06, 783.726
2447594.94, 309515.641, 779.96056, 1.55, TF-12-06, 783.726
2447594.94, 309515.641, 779.67192, 1.45, TF-12-06, 783.726
2447594.94, 309515.641, 779.42592, 1.42, TF-12-06, 783.726
2447594.94, 309515.641, 779.14056, 1.52, TF-12-06, 783.726
2447594.94, 309515.641, 778.84864, 1.32, TF-12-06, 783.726
2447594.94, 309515.641, 778.60264, 1.25, TF-12-06, 783.726
2447594.94, 309515.641, 778.30744, 1.42, TF-12-06, 783.726
2447594.94, 309515.641, 777.99256, 1.45, TF-12-06, 783.726
2447594.94, 309515.641, 777.68752, 1.39, TF-12-06, 783.726
2447594.94, 309515.641, 777.40216, 1.36, TF-12-06, 783.726
2447594.94, 309515.641, 777.12008, 1.42, TF-12-06, 783.726
2447594.94, 309515.641, 776.83472, 1.39, TF-12-06, 783.726
2447594.94, 309515.641, 776.57888, 1.35, TF-12-06, 783.726
2447594.94, 309515.641, 776.28368, 1.26, TF-12-06, 783.726
2447594.94, 309515.641, 775.99176, 1.27, TF-12-06, 783.726
2447594.94, 309515.641, 775.88352, 1.26, TF-12-06, 783.726
2447594.94, 309515.641, 775.58832, 1.34, TF-12-06, 783.726
2447594.94, 309515.641, 775.28656, 1.46, TF-12-06, 783.726
2447594.94, 309515.641, 774.952, 1.41, TF-12-06, 783.726
2447594.94, 309515.641, 774.74208, 1.6, TF-12-06, 783.726
2447594.94, 309515.641, 774.49608, 1.36, TF-12-06, 783.726
2447594.94, 309515.641, 774.1976, 1.64, TF-12-06, 783.726
2447594.94, 309515.641, 773.96144, 2.34, TF-12-06, 783.726
2447594.94, 309515.641, 773.75808, 1.81, TF-12-06, 783.726
2447594.94, 309515.641, 773.48912, 2.84, TF-12-06, 783.726
2447594.94, 309515.641, 773.42024, 2.01, TF-12-06, 783.726
2447594.94, 309515.641, 773.31856, 2.4, TF-12-06, 783.726
2447594.94, 309515.641, 773.04632, 1.66, TF-12-06, 783.726
2447594.94, 309515.641, 772.70848, 1.57, TF-12-06, 783.726
2447594.94, 309515.641, 772.48872, 1.61, TF-12-06, 783.726
2447648.352, 309542.994, 781.299, 2.29, TF-12-07, 781.299
2447648.352, 309542.994, 781.25308, 2.75, TF-12-07, 781.299
2447648.352, 309542.994, 780.92508, 2, TF-12-07, 781.299
2447648.352, 309542.994, 780.68564, 1.87, TF-12-07, 781.299
2447648.352, 309542.994, 780.53804, 3.52, TF-12-07, 781.299
2447648.352, 309542.994, 780.39044, 2.01, TF-12-07, 781.299
2447648.352, 309542.994, 780.06572, 2.11, TF-12-07, 781.299
2447648.352, 309542.994, 779.7738, 2.07, TF-12-07, 781.299
2447648.352, 309542.994, 779.6262, 2.25, TF-12-07, 781.299
2447648.352, 309542.994, 779.35068, 2, TF-12-07, 781.299
2447648.352, 309542.994, 779.05876, 1.82, TF-12-07, 781.299
2447648.352, 309542.994, 778.77996, 1.71, TF-12-07, 781.299
2447648.352, 309542.994, 778.63892, 1.61, TF-12-07, 781.299
2447648.352, 309542.994, 778.32732, 1.97, TF-12-07, 781.299
2447648.352, 309542.994, 778.03868, 1.76, TF-12-07, 781.299
2447648.352, 309542.994, 777.72052, 1.76, TF-12-07, 781.299
2447648.352, 309542.994, 777.66148, 2.05, TF-12-07, 781.299
2447648.352, 309542.994, 777.34004, 1.88, TF-12-07, 781.299
2447648.352, 309542.994, 777.04484, 1.88, TF-12-07, 781.299
2447648.352, 309542.994, 776.72012, 1.96, TF-12-07, 781.299
2447648.352, 309542.994, 776.45444, 1.7, TF-12-07, 781.299
2447648.352, 309542.994, 776.1494, 1.74, TF-12-07, 781.299
2447648.352, 309542.994, 775.89356, 1.69, TF-12-07, 781.299
2447648.352, 309542.994, 775.59836, 1.64, TF-12-07, 781.299
2447648.352, 309542.994, 775.29332, 1.69, TF-12-07, 781.299
2447648.352, 309542.994, 775.04076, 1.81, TF-12-07, 781.299
2447648.352, 309542.994, 774.76852, 1.76, TF-12-07, 781.299
2447648.352, 309542.994, 774.46348, 1.71, TF-12-07, 781.299
2447648.352, 309542.994, 774.15188, 1.64, TF-12-07, 781.299
2447648.352, 309542.994, 773.8206, 1.67, TF-12-07, 781.299
2447648.352, 309542.994, 773.56148, 1.62, TF-12-07, 781.299
2447648.352, 309542.994, 773.49588, 1.58, TF-12-07, 781.299
2447648.352, 309542.994, 773.35812, 2.52, TF-12-07, 781.299
2447648.352, 309542.994, 773.15804, 1.73, TF-12-07, 781.299
2447648.352, 309542.994, 773.00716, 6.67, TF-12-07, 781.299
2447648.352, 309542.994, 772.66932, 5.12, TF-12-07, 781.299
2447648.352, 309542.994, 772.60372, 10.52, TF-12-07, 781.299
2447648.352, 309542.994, 772.4102, 5.01, TF-12-07, 781.299
2447648.352, 309542.994, 772.1478, 11.89, TF-12-07, 781.299
2447648.352, 309542.994, 771.98052, 6.34, TF-12-07, 781.299
2447648.352, 309542.994, 771.71812, 12.75, TF-12-07, 781.299
2447648.352, 309542.994, 771.45572, 6.19, TF-12-07, 781.299
2447648.352, 309542.994, 771.38684, 8.09, TF-12-07, 781.299
2447648.352, 309542.994, 771.22284, 7.92, TF-12-07, 781.299
2447648.352, 309542.994, 770.97028, 5.01, TF-12-07, 781.299
2447648.352, 309542.994, 770.77676, 4.11, TF-12-07, 781.299
2447648.352, 309542.994, 770.46188, 10.08, TF-12-07, 781.299
2447648.352, 309542.994, 770.36676, 15.13, TF-12-07, 781.299
2447648.352, 309542.994, 770.27492, 10.53, TF-12-07, 781.299
2447648.352, 309542.994, 770.2618, 15.01, TF-12-07, 781.299
2447648.352, 309542.994, 770.20604, 12.47, TF-12-07, 781.299
2447648.352, 309542.994, 770.1306, 15.78, TF-12-07, 781.299
2447648.352, 309542.994, 770.0814, 13.33, TF-12-07, 781.299
2447648.352, 309542.994, 770.00268, 16.48, TF-12-07, 781.299
2447648.352, 309542.994, 769.72388, 14.82, TF-12-07, 781.299
2447648.352, 309542.994, 769.49428, 27.9, TF-12-07, 781.299
2447648.352, 309542.994, 769.409, 16.92, TF-12-07, 781.299
2447648.352, 309542.994, 769.13348, 19.8, TF-12-07, 781.299

2447648.352, 309542.994, 768.95964, 36.69, TF-12-07, 781.299
2447648.352, 309542.994, 768.72676, 34.38, TF-12-07, 781.299
2447648.352, 309542.994, 768.57588, 57.8, TF-12-07, 781.299
2447648.352, 309542.994, 768.43156, 27.62, TF-12-07, 781.299
2447648.352, 309542.994, 768.343, 36.82, TF-12-07, 781.299
2447648.352, 309542.994, 768.05436, 4.14, TF-12-07, 781.299
2447648.352, 309542.994, 767.74276, 2.18, TF-12-07, 781.299
2447648.352, 309542.994, 767.43116, 2.96, TF-12-07, 781.299
2447648.352, 309542.994, 767.22452, 2.12, TF-12-07, 781.299
2447648.352, 309542.994, 766.95884, 2.07, TF-12-07, 781.299
2447648.352, 309542.994, 766.6538, 2.32, TF-12-07, 781.299
2447648.352, 309542.994, 766.32252, 2.27, TF-12-07, 781.299
2447648.352, 309542.994, 766.01092, 2.17, TF-12-07, 781.299
2447648.352, 309542.994, 765.7682, 2.04, TF-12-07, 781.299
2447648.352, 309542.994, 765.61732, 1.83, TF-12-07, 781.299
2447648.352, 309542.994, 765.45988, 2.16, TF-12-07, 781.299
2447648.352, 309542.994, 765.2106, 1.75, TF-12-07, 781.299
2447648.352, 309542.994, 764.96132, 1.86, TF-12-07, 781.299
2447648.352, 309542.994, 764.7186, 1.92, TF-12-07, 781.299
2447648.352, 309542.994, 764.66612, 2.18, TF-12-07, 781.299
2447648.352, 309542.994, 764.41356, 1.75, TF-12-07, 781.299
2447648.352, 309542.994, 764.22332, 1.81, TF-12-07, 781.299
2447573.86, 309499.632, 781.932, 1.5, TF-12-08, 781.932
2447573.86, 309499.632, 781.8828, 3.14, TF-12-08, 781.932
2447573.86, 309499.632, 781.686, 1.59, TF-12-08, 781.932
2447573.86, 309499.632, 781.49248, 1.79, TF-12-08, 781.932
2447573.86, 309499.632, 781.33176, 1.39, TF-12-08, 781.932
2447573.86, 309499.632, 781.23664, 1.74, TF-12-08, 781.932
2447573.86, 309499.632, 781.02016, 1.27, TF-12-08, 781.932
2447573.86, 309499.632, 780.73152, 1.57, TF-12-08, 781.932
2447573.86, 309499.632, 780.4888, 1.47, TF-12-08, 781.932
2447573.86, 309499.632, 780.33792, 1.15, TF-12-08, 781.932
2447573.86, 309499.632, 780.07552, 1.3, TF-12-08, 781.932
2447573.86, 309499.632, 779.80656, 1.13, TF-12-08, 781.932
2447573.86, 309499.632, 779.53432, 1.26, TF-12-08, 781.932
2447573.86, 309499.632, 779.45232, 1.35, TF-12-08, 781.932
2447573.86, 309499.632, 779.15712, 1.21, TF-12-08, 781.932
2447573.86, 309499.632, 778.898, 1.23, TF-12-08, 781.932
2447573.86, 309499.632, 778.60936, 1.2, TF-12-08, 781.932
2447573.86, 309499.632, 778.29776, 1.14, TF-12-08, 781.932
2447573.86, 309499.632, 778.15344, 1.08, TF-12-08, 781.932
2447573.86, 309499.632, 778.00256, 1.45, TF-12-08, 781.932
2447573.86, 309499.632, 777.75984, 1.33, TF-12-08, 781.932
2447573.86, 309499.632, 777.51056, 1.17, TF-12-08, 781.932
2447573.86, 309499.632, 777.26456, 1.12, TF-12-08, 781.932
2447573.86, 309499.632, 776.9464, 1.14, TF-12-08, 781.932
2447573.86, 309499.632, 776.78896, 1.06, TF-12-08, 781.932
2447573.86, 309499.632, 776.5364, 1.2, TF-12-08, 781.932
2447573.86, 309499.632, 776.27072, 1.41, TF-12-08, 781.932
2447573.86, 309499.632, 775.93944, 1.11, TF-12-08, 781.932
2447573.86, 309499.632, 775.84104, 1.1, TF-12-08, 781.932
2447573.86, 309499.632, 775.57864, 1.1, TF-12-08, 781.932
2447573.86, 309499.632, 775.31952, 1.18, TF-12-08, 781.932
2447573.86, 309499.632, 775.14568, 1.1, TF-12-08, 781.932
2447573.86, 309499.632, 775.00464, 1.41, TF-12-08, 781.932
2447573.86, 309499.632, 774.93576, 1.1, TF-12-08, 781.932
2447573.86, 309499.632, 774.70944, 1.41, TF-12-08, 781.932
2447573.86, 309499.632, 774.634, 1.12, TF-12-08, 781.932
2447573.86, 309499.632, 774.38144, 1.2, TF-12-08, 781.932
2447573.86, 309499.632, 774.24368, 1.36, TF-12-08, 781.932
2447573.86, 309499.632, 774.20432, 1.12, TF-12-08, 781.932
2447573.86, 309499.632, 773.94848, 1.12, TF-12-08, 781.932
2447573.86, 309499.632, 773.80744, 1.13, TF-12-08, 781.932
2447612.887, 309495.37, 781.214, 0.67, TF-12-09, 781.214
2447612.887, 309495.37, 781.19104, 0.87, TF-12-09, 781.214
2447612.887, 309495.37, 781.02048, 0.72, TF-12-09, 781.214
2447612.887, 309495.37, 780.87288, 0.88, TF-12-09, 781.214
2447612.887, 309495.37, 780.7876, 0.71, TF-12-09, 781.214
2447612.887, 309495.37, 780.49896, 0.77, TF-12-09, 781.214
2447612.887, 309495.37, 780.21032, 0.75, TF-12-09, 781.214
2447612.887, 309495.37, 779.97744, 0.85, TF-12-09, 781.214
2447612.887, 309495.37, 779.74456, 0.68, TF-12-09, 781.214
2447612.887, 309495.37, 779.4264, 0.76, TF-12-09, 781.214
2447612.887, 309495.37, 779.40344, 0.56, TF-12-09, 781.214
2447612.887, 309495.37, 779.28208, 0.94, TF-12-09, 781.214
2447612.887, 309495.37, 779.06232, 0.52, TF-12-09, 781.214
2447612.887, 309495.37, 778.79336, 0.93, TF-12-09, 781.214
2447612.887, 309495.37, 778.57032, 0.71, TF-12-09, 781.214
2447612.887, 309495.37, 778.25216, 0.77, TF-12-09, 781.214
2447612.887, 309495.37, 777.9668, 0.74, TF-12-09, 781.214
2447612.887, 309495.37, 777.65848, 0.91, TF-12-09, 781.214
2447612.887, 309495.37, 777.3764, 0.67, TF-12-09, 781.214
2447612.887, 309495.37, 777.2288, 0.91, TF-12-09, 781.214
2447612.887, 309495.37, 777.06152, 0.76, TF-12-09, 781.214
2447612.887, 309495.37, 777.00248, 0.99, TF-12-09, 781.214
2447612.887, 309495.37, 776.7696, 0.81, TF-12-09, 781.214
2447612.887, 309495.37, 776.68104, 0.99, TF-12-09, 781.214
2447612.887, 309495.37, 776.62528, 0.83, TF-12-09, 781.214
2447612.887, 309495.37, 776.38912, 0.92, TF-12-09, 781.214
2447612.887, 309495.37, 776.35304, 0.75, TF-12-09, 781.214
2447612.887, 309495.37, 776.33664, 0.93, TF-12-09, 781.214
2447612.887, 309495.37, 776.16608, 0.55, TF-12-09, 781.214
2447612.887, 309495.37, 776.0808, 0.99, TF-12-09, 781.214
2447612.887, 309495.37, 775.99552, 0.86, TF-12-09, 781.214
2447612.887, 309495.37, 775.94304, 1.14, TF-12-09, 781.214
2447612.887, 309495.37, 775.72328, 0.91, TF-12-09, 781.214
2447612.887, 309495.37, 775.638, 0.6, TF-12-09, 781.214
2447612.887, 309495.37, 775.43464, 0.96, TF-12-09, 781.214
2447612.887, 309495.37, 775.25752, 0.71, TF-12-09, 781.214
2447612.887, 309495.37, 774.96888, 0.95, TF-12-09, 781.214
2447612.887, 309495.37, 774.82456, 0.89, TF-12-09, 781.214
2447612.887, 309495.37, 774.65072, 0.65, TF-12-09, 781.214

```
2447612.887, 309495.37, 774.59168, 1.02, TF-12-09, 781.214
2447612.887, 309495.37, 774.41456, 0.71, TF-12-09, 781.214
2447612.887, 309495.37, 774.12264, 0.9, TF-12-09, 781.214
2447612.887, 309495.37, 774.03736, 0.68, TF-12-09, 781.214
2447612.887, 309495.37, 773.94552, 0.84, TF-12-09, 781.214
2447612.887, 309495.37, 773.65032, 0.62, TF-12-09, 781.214
2447612.887, 309495.37, 773.50272, 0.77, TF-12-09, 781.214
2447612.887, 309495.37, 773.2764, 0.65, TF-12-09, 781.214
2447612.887, 309495.37, 773.08288, 0.96, TF-12-09, 781.214
2447612.887, 309495.37, 772.8008, 0.81, TF-12-09, 781.214
2447612.887, 309495.37, 772.62368, 0.63, TF-12-09, 781.214
2447612.887, 309495.37, 772.54824, 0.78, TF-12-09, 781.214
2447612.887, 309495.37, 772.4236, 0.63, TF-12-09, 781.214
2447612.887, 309495.37, 772.27272, 0.82, TF-12-09, 781.214
2447612.887, 309495.37, 772.18088, 0.7, TF-12-09, 781.214
2447612.887, 309495.37, 771.94144, 1, TF-12-09, 781.214
2447612.887, 309495.37, 771.80696, 0.55, TF-12-09, 781.214
2447612.887, 309495.37, 771.75776, 0.75, TF-12-09, 781.214
2447654.147, 309502.983, 781.44, -0.14, TF-12-10, 781.44
2447654.147, 309502.983, 781.13824, 0.96, TF-12-10, 781.44
2447654.147, 309502.983, 780.8332, 1.19, TF-12-10, 781.44
2447654.147, 309502.983, 780.59048, 0.96, TF-12-10, 781.44
2447654.147, 309502.983, 780.34776, 0.79, TF-12-10, 781.44
2447654.147, 309502.983, 780.04928, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 779.72784, 0.76, TF-12-10, 781.44
2447654.147, 309502.983, 779.48512, 0.67, TF-12-10, 781.44
2447654.147, 309502.983, 779.2424, 0.85, TF-12-10, 781.44
2447654.147, 309502.983, 778.99968, 0.73, TF-12-10, 781.44
2447654.147, 309502.983, 778.74712, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 778.488, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 778.22888, 0.68, TF-12-10, 781.44
2447654.147, 309502.983, 777.96976, 0.87, TF-12-10, 781.44
2447654.147, 309502.983, 777.71392, 0.87, TF-12-10, 781.44
2447654.147, 309502.983, 777.37936, 0.71, TF-12-10, 781.44
2447654.147, 309502.983, 777.11696, 0.78, TF-12-10, 781.44
2447654.147, 309502.983, 776.848, 0.69, TF-12-10, 781.44
2447654.147, 309502.983, 776.57904, 0.66, TF-12-10, 781.44
2447654.147, 309502.983, 776.30352, 0.84, TF-12-10, 781.44
2447654.147, 309502.983, 775.98536, 0.86, TF-12-10, 781.44
2447654.147, 309502.983, 775.7164, 0.94, TF-12-10, 781.44
2447654.147, 309502.983, 775.44744, 0.62, TF-12-10, 781.44
2447654.147, 309502.983, 775.11288, 0.72, TF-12-10, 781.44
2447654.147, 309502.983, 774.8472, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 774.57168, 0.86, TF-12-10, 781.44
2447654.147, 309502.983, 774.29616, 0.72, TF-12-10, 781.44
2447654.147, 309502.983, 774.02064, 0.66, TF-12-10, 781.44
2447654.147, 309502.983, 773.74184, 0.72, TF-12-10, 781.44
2447654.147, 309502.983, 773.46632, 0.83, TF-12-10, 781.44
2447654.147, 309502.983, 773.1908, 0.86, TF-12-10, 781.44
2447654.147, 309502.983, 772.9284, 0.81, TF-12-10, 781.44
2447654.147, 309502.983, 772.65288, 0.79, TF-12-10, 781.44
2447654.147, 309502.983, 772.37408, 0.79, TF-12-10, 781.44
2447654.147, 309502.983, 772.09856, 0.74, TF-12-10, 781.44
2447654.147, 309502.983, 771.82304, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 771.54096, 0.77, TF-12-10, 781.44
2447654.147, 309502.983, 771.29496, 0.75, TF-12-10, 781.44
2447654.147, 309502.983, 771.02272, 0.72, TF-12-10, 781.44
2447654.147, 309502.983, 770.74392, 0.92, TF-12-10, 781.44
2447654.147, 309502.983, 770.42904, 1.17, TF-12-10, 781.44
2447654.147, 309502.983, 770.17648, 0.89, TF-12-10, 781.44
2447654.147, 309502.983, 769.93376, 0.96, TF-12-10, 781.44
2447654.147, 309502.983, 769.67136, 0.89, TF-12-10, 781.44
2447654.147, 309502.983, 769.55984, 0.88, TF-12-10, 781.44
2447723.791, 309866.774, 784, 0.57, WIL-P2-01, 784
2447723.791, 309866.774, 783.92128, 1.33, WIL-P2-01, 784
2447723.791, 309866.774, 783.83928, 0.83, WIL-P2-01, 784
2447723.791, 309866.774, 783.51784, 0.95, WIL-P2-01, 784
2447723.791, 309866.774, 783.19312, 0.59, WIL-P2-01, 784
2447723.791, 309866.774, 783.04224, 0.78, WIL-P2-01, 784
2447723.791, 309866.774, 782.89464, 0.58, WIL-P2-01, 784
2447723.791, 309866.774, 782.65192, 0.7, WIL-P2-01, 784
2447723.791, 309866.774, 782.56008, 0.49, WIL-P2-01, 784
2447723.791, 309866.774, 782.50104, 0.63, WIL-P2-01, 784
2447723.791, 309866.774, 782.32392, 0.5, WIL-P2-01, 784
2447723.791, 309866.774, 782.25832, 0.74, WIL-P2-01, 784
2447723.791, 309866.774, 782.10088, 0.41, WIL-P2-01, 784
2447723.791, 309866.774, 781.87128, 0.67, WIL-P2-01, 784
2447723.791, 309866.774, 781.59248, 0.52, WIL-P2-01, 784
2447723.791, 309866.774, 781.3432, 0.55, WIL-P2-01, 784
2447723.791, 309866.774, 781.09064, 0.65, WIL-P2-01, 784
2447723.791, 309866.774, 780.99224, 0.17, WIL-P2-01, 784
2447723.791, 309866.774, 780.73968, 0.64, WIL-P2-01, 784
2447723.791, 309866.774, 780.48384, 0.7, WIL-P2-01, 784
2447723.791, 309866.774, 780.32312, 0.66, WIL-P2-01, 784
2447723.791, 309866.774, 780.07056, 0.48, WIL-P2-01, 784
2447723.791, 309866.774, 780.00824, 0.79, WIL-P2-01, 784
2447723.791, 309866.774, 779.84752, 0.43, WIL-P2-01, 784
2447723.791, 309866.774, 779.67368, 0.57, WIL-P2-01, 784
2447663.423, 309856.006, 783.25, 1.26, WIL-P2-02, 783.25
2447663.423, 309856.006, 783.1844, 0.88, WIL-P2-02, 783.25
2447663.423, 309856.006, 783.1188, 1.07, WIL-P2-02, 783.25
2447663.423, 309856.006, 782.80392, 0.72, WIL-P2-02, 783.25
2447663.423, 309856.006, 782.71864, 0.61, WIL-P2-02, 783.25
2447663.423, 309856.006, 782.49232, 2.28, WIL-P2-02, 783.25
2447663.423, 309856.006, 782.266, 0.81, WIL-P2-02, 783.25
2447663.423, 309856.006, 782.09872, 0.68, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.96096, 0.82, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.84616, 0.47, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.7904, 0.62, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.7084, 0.47, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.44272, 0.69, WIL-P2-02, 783.25
2447663.423, 309856.006, 781.37056, 0.87, WIL-P2-02, 783.25
```

2447663.423, 309856.006, 781.23936, 0.55, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.95728, 0.47, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.82608, 0.69, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.6588, 0.51, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.52432, 0.6, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.31112, 0.29, WIL-P2-02, 783.25
2447663.423, 309856.006, 780.00936, 0.72, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.92736, 0.42, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.79616, 0.6, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.62888, 0.6, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.4944, 0.48, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.27792, 0.52, WIL-P2-02, 783.25
2447663.423, 309856.006, 779.05816, 0.3, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.89088, 0.59, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.67112, 0.34, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.50384, 0.52, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.48416, 0.31, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.3628, 0.47, WIL-P2-02, 783.25
2447663.423, 309856.006, 778.07416, 0.48, WIL-P2-02, 783.25
2447663.423, 309856.006, 777.80848, 0.45, WIL-P2-02, 783.25
2447663.423, 309856.006, 777.56248, 0.52, WIL-P2-02, 783.25
2447663.423, 309856.006, 777.50672, 0.29, WIL-P2-02, 783.25
2447663.423, 309856.006, 777.42472, 0.59, WIL-P2-02, 783.25
2447663.423, 309856.006, 777.182, 0.66, WIL-P2-02, 783.25
2447663.423, 309856.006, 776.98192, 0.64, WIL-P2-02, 783.25
2447663.423, 309856.006, 776.89336, 0.48, WIL-P2-02, 783.25
2447663.423, 309856.006, 776.86056, 0.66, WIL-P2-02, 783.25
2447569.846, 309832.846, 786.896, 0.89, WIL-P2-03, 786.896
2447569.846, 309832.846, 786.87304, 1.92, WIL-P2-03, 786.896
2447569.846, 309832.846, 786.81728, 0.23, WIL-P2-03, 786.896
2447569.846, 309832.846, 786.732, 1.04, WIL-P2-03, 786.896
2447569.846, 309832.846, 786.5024, 0.28, WIL-P2-03, 786.896
2447569.846, 309832.846, 786.21704, -0.25, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.97104, -1.49, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.72176, -1.69, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.47248, -0.99, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.2232, -0.09, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.16088, 0.12, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.13136, 0.31, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.0592, 0.18, WIL-P2-03, 786.896
2447569.846, 309832.846, 785.00672, 0.48, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.7148, -0.76, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.65904, 0.54, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.57704, 0.31, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.43928, 0.67, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.35072, 0.2, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.20312, 0.8, WIL-P2-03, 786.896
2447569.846, 309832.846, 784.05552, 0.38, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.95384, 0.04, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.78656, 0.53, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.6816, 0.07, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.51432, 0.11, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.34376, 0.04, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.13712, 0.14, WIL-P2-03, 786.896
2447569.846, 309832.846, 783.06824, 0.95, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.8616, 0.57, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.69104, 0.55, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.41552, -0.73, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.34664, 0.02, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.07112, -0.29, WIL-P2-03, 786.896
2447569.846, 309832.846, 782.06456, 0.14, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.88416, 0.24, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.81856, 0.2, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.71688, 0.41, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.6152, 0.26, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.33968, 0.25, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.2708, 0.47, WIL-P2-03, 786.896
2447569.846, 309832.846, 781.0576, 0.25, WIL-P2-03, 786.896
2447569.846, 309832.846, 780.98544, 0.65, WIL-P2-03, 786.896
2447569.846, 309832.846, 780.70664, 0.18, WIL-P2-03, 786.896
2447569.846, 309832.846, 780.59512, 0.59, WIL-P2-03, 786.896
2447569.846, 309832.846, 780.31304, 0.31, WIL-P2-03, 786.896
2447569.846, 309832.846, 780.0244, -0.77, WIL-P2-03, 786.896
2447569.846, 309832.846, 779.844, 0.11, WIL-P2-03, 786.896
2447569.846, 309832.846, 779.77184, 0.04, WIL-P2-03, 786.896
2447569.846, 309832.846, 779.48648, -0.63, WIL-P2-03, 786.896
2447569.846, 309832.846, 779.19784, -2.1, WIL-P2-03, 786.896
2447569.846, 309832.846, 778.91248, -0.89, WIL-P2-03, 786.896
2447569.846, 309832.846, 778.65008, -1.62, WIL-P2-03, 786.896
2447569.846, 309832.846, 778.37456, -1.11, WIL-P2-03, 786.896
2447569.846, 309832.846, 778.30896, 0.05, WIL-P2-03, 786.896
2447569.846, 309832.846, 778.02688, 0.39, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.92192, 0.18, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.7448, 0.42, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.63984, 0.05, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.57096, 0.09, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.39712, 0.08, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.18392, 0.78, WIL-P2-03, 786.896
2447569.846, 309832.846, 777.11176, 0.64, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.89856, 0.84, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.82968, 0.4, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.55088, 0.65, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.28192, -0.95, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.27208, 0.17, WIL-P2-03, 786.896
2447569.846, 309832.846, 776.26552, 0.04, WIL-P2-03, 786.896
2447611.566, 309770.482, 786.133, 1.1, WIL-P2-04, 786.133
2447611.566, 309770.482, 786.07724, 1.6, WIL-P2-04, 786.133
2447611.566, 309770.482, 785.90012, 1.27, WIL-P2-04, 786.133
2447611.566, 309770.482, 785.62788, 1.34, WIL-P2-04, 786.133
2447611.566, 309770.482, 785.34252, 1.32, WIL-P2-04, 786.133
2447611.566, 309770.482, 785.07356, 1.39, WIL-P2-04, 786.133
2447611.566, 309770.482, 784.77508, 1.45, WIL-P2-04, 786.133

2447611.566, 309770.482, 784.53236, 1.6, WIL-P2-04, 786.133
2447611.566, 309770.482, 784.2142, 1.4, WIL-P2-04, 786.133
2447611.566, 309770.482, 784.20764, 0.82, WIL-P2-04, 786.133
2447611.566, 309770.482, 784.20436, 1.41, WIL-P2-04, 786.133
2447611.566, 309770.482, 783.94852, 1.52, WIL-P2-04, 786.133
2447611.566, 309770.482, 783.61068, 1.36, WIL-P2-04, 786.133
2447611.566, 309770.482, 783.33516, 1.36, WIL-P2-04, 786.133
2447611.566, 309770.482, 783.05636, 1.43, WIL-P2-04, 786.133
2447611.566, 309770.482, 782.77756, 1.35, WIL-P2-04, 786.133
2447611.566, 309770.482, 782.48564, 1.44, WIL-P2-04, 786.133
2447611.566, 309770.482, 782.19372, 1.4, WIL-P2-04, 786.133
2447611.566, 309770.482, 781.9346, 1.37, WIL-P2-04, 786.133
2447611.566, 309770.482, 781.6394, 1.25, WIL-P2-04, 786.133
2447611.566, 309770.482, 781.34092, 1.31, WIL-P2-04, 786.133
2447611.566, 309770.482, 781.04572, 1.39, WIL-P2-04, 786.133
2447611.566, 309770.482, 780.75708, 1.31, WIL-P2-04, 786.133
2447611.566, 309770.482, 780.4586, 1.34, WIL-P2-04, 786.133
2447611.566, 309770.482, 780.16012, 1.26, WIL-P2-04, 786.133
2447611.566, 309770.482, 779.86492, 1.31, WIL-P2-04, 786.133
2447611.566, 309770.482, 779.75668, 1.24, WIL-P2-04, 786.133
2447611.566, 309770.482, 779.50412, 1.38, WIL-P2-04, 786.133
2447611.566, 309770.482, 779.20236, 1.36, WIL-P2-04, 786.133
2447611.566, 309770.482, 778.90716, 1.5, WIL-P2-04, 786.133
2447611.566, 309770.482, 778.6546, 1.48, WIL-P2-04, 786.133
2447611.566, 309770.482, 778.3758, 1.63, WIL-P2-04, 786.133
2447611.566, 309770.482, 778.19212, 1.7, WIL-P2-04, 786.133
2447611.566, 309770.482, 777.84116, 1.57, WIL-P2-04, 786.133
2447611.566, 309770.482, 777.5066, 1.49, WIL-P2-04, 786.133
2447611.566, 309770.482, 777.38196, 1.47, WIL-P2-04, 786.133
2447611.566, 309770.482, 777.3098, 1.83, WIL-P2-04, 786.133
2447611.566, 309770.482, 777.20484, 1.12, WIL-P2-04, 786.133
2447611.566, 309770.482, 776.90308, 1.81, WIL-P2-04, 786.133
2447611.566, 309770.482, 776.5882, 1.14, WIL-P2-04, 786.133
2447611.566, 309770.482, 776.51276, 1.11, WIL-P2-04, 786.133
2447611.566, 309770.482, 776.31596, 1.99, WIL-P2-04, 786.133
2447611.566, 309770.482, 776.08636, 1.42, WIL-P2-04, 786.133
2447611.566, 309770.482, 775.9322, 1.72, WIL-P2-04, 786.133

```
# C Tech Data Tool generated APDV File from W:\PROJECTS\LOCKHEADMARTIN\WILCOX\MVS\DATA\ROSTALLLORAINE_011116-REDUCED.APDV
(1/11/2016 4:50:29 PM)
# Reduced using Gradient optimization algorithm.  Auto settings with a target of 100 samples per boring.
x y z @@Fluorescence Boring Elevation
Elevation Ft
4892 1 %
2446921.355 310763.425 807.721 2.56 LOR-01 807.721
2446921.355 310763.425 807.59636 2.08 LOR-01 807.721
2446921.355 310763.425 807.46844 3.25 LOR-01 807.721
2446921.355 310763.425 807.35364 3.71 LOR-01 807.721
2446921.355 310763.425 807.25524 11.57 LOR-01 807.721
2446921.355 310763.425 807.12732 12.76 LOR-01 807.721
2446921.355 310763.425 807.02564 7.22 LOR-01 807.721
2446921.355 310763.425 806.87804 5.07 LOR-01 807.721
2446921.355 310763.425 806.74684 5.49 LOR-01 807.721
2446921.355 310763.425 806.63204 4 LOR-01 807.721
2446921.355 310763.425 806.48772 4.2 LOR-01 807.721
2446921.355 310763.425 806.33684 3.64 LOR-01 807.721
2446921.355 310763.425 806.1794 3.04 LOR-01 807.721
2446921.355 310763.425 805.99572 2.95 LOR-01 807.721
2446921.355 310763.425 805.88748 3.18 LOR-01 807.721
2446921.355 310763.425 805.78908 3.12 LOR-01 807.721
2446921.355 310763.425 805.69068 3.24 LOR-01 807.721
2446921.355 310763.425 805.58244 3.08 LOR-01 807.721
2446921.355 310763.425 805.47092 3.04 LOR-01 807.721
2446921.355 310763.425 805.3594 2.99 LOR-01 807.721
2446921.355 310763.425 805.2282 2.62 LOR-01 807.721
2446921.355 310763.425 805.12652 2.84 LOR-01 807.721
2446921.355 310763.425 804.97236 3.23 LOR-01 807.721
2446921.355 310763.425 804.82476 2.98 LOR-01 807.721
2446921.355 310763.425 804.69356 2.97 LOR-01 807.721
2446921.355 310763.425 804.57548 2.96 LOR-01 807.721
2446921.355 310763.425 804.44756 2.92 LOR-01 807.721
2446921.355 310763.425 804.3262 2.36 LOR-01 807.721
2446921.355 310763.425 804.2278 3.16 LOR-01 807.721
2446921.355 310763.425 804.0966 2.37 LOR-01 807.721
2446921.355 310763.425 803.97196 2.62 LOR-01 807.721
2446921.355 310763.425 803.86372 1.71 LOR-01 807.721
2446921.355 310763.425 803.71612 2.01 LOR-01 807.721
2446921.355 310763.425 803.55868 1.96 LOR-01 807.721
2446921.355 310763.425 803.45372 1.84 LOR-01 807.721
2446921.355 310763.425 803.33236 1.99 LOR-01 807.721
2446921.355 310763.425 803.20772 1.65 LOR-01 807.721
2446921.355 310763.425 803.04044 1.89 LOR-01 807.721
2446921.355 310763.425 802.92564 1.75 LOR-01 807.721
2446921.355 310763.425 802.74852 1.77 LOR-01 807.721
2446921.355 310763.425 802.60092 1.62 LOR-01 807.721
2446921.355 310763.425 802.45004 1.59 LOR-01 807.721
2446921.355 310763.425 802.29588 1.81 LOR-01 807.721
2446921.355 310763.425 802.1614 1.87 LOR-01 807.721
2446921.355 310763.425 802.04988 1.7 LOR-01 807.721
2446921.355 310763.425 801.90884 1.48 LOR-01 807.721
2446921.355 310763.425 801.80388 1.95 LOR-01 807.721
2446921.355 310763.425 801.68908 1.62 LOR-01 807.721
2446921.355 310763.425 801.58084 1.65 LOR-01 807.721
2446921.355 310763.425 801.44964 1.77 LOR-01 807.721
2446921.355 310763.425 801.31516 1.54 LOR-01 807.721
2446921.355 310763.425 801.2102 1.58 LOR-01 807.721
2446921.355 310763.425 801.10852 1.48 LOR-01 807.721
2446921.355 310763.425 801.01012 1.67 LOR-01 807.721
2446921.355 310763.425 800.8658 1.61 LOR-01 807.721
2446921.355 310763.425 800.7346 1.53 LOR-01 807.721
2446921.355 310763.425 800.61652 1.72 LOR-01 807.721
2446921.355 310763.425 800.51812 1.57 LOR-01 807.721
2446921.355 310763.425 800.37708 1.9 LOR-01 807.721
2446921.355 310763.425 800.21964 1.98 LOR-01 807.721
2446921.355 310763.425 800.05892 1.99 LOR-01 807.721
2446921.355 310763.425 799.96052 2.06 LOR-01 807.721
2446921.355 310763.425 799.79652 1.96 LOR-01 807.721
2446921.355 310763.425 799.685 2.05 LOR-01 807.721
2446921.355 310763.425 799.57348 2.19 LOR-01 807.721
2446921.355 310763.425 799.46852 2.17 LOR-01 807.721
2446921.355 310763.425 799.31764 2.06 LOR-01 807.721
2446921.355 310763.425 799.20284 1.85 LOR-01 807.721
2446921.355 310763.425 799.09132 1.74 LOR-01 807.721
2446921.355 310763.425 798.98964 2.07 LOR-01 807.721
2446921.355 310763.425 798.89124 1.83 LOR-01 807.721
2446921.355 310763.425 798.73052 2 LOR-01 807.721
2446921.355 310763.425 798.59604 2.11 LOR-01 807.721
2446921.355 310763.425 798.4386 2.01 LOR-01 807.721
2446921.355 310763.425 798.28444 2.03 LOR-01 807.721
2446921.355 310763.425 798.09092 2.02 LOR-01 807.721
2446921.355 310763.425 797.9302 2.05 LOR-01 807.721
2446921.355 310763.425 797.77276 1.74 LOR-01 807.721
2446921.355 310763.425 797.62188 1.71 LOR-01 807.721
2446921.355 310763.425 797.44476 1.59 LOR-01 807.721
2446921.355 310763.425 797.30372 1.67 LOR-01 807.721
2446921.355 310763.425 797.143 1.69 LOR-01 807.721
2446921.355 310763.425 796.9626 1.74 LOR-01 807.721
2446921.355 310763.425 796.85108 1.77 LOR-01 807.721
2446921.355 310763.425 796.68708 1.58 LOR-01 807.721
2446921.355 310763.425 796.53292 1.71 LOR-01 807.721
2446921.355 310763.425 796.43452 1.73 LOR-01 807.721
2446921.355 310763.425 796.27052 1.6 LOR-01 807.721
2446921.355 310763.425 796.13604 1.56 LOR-01 807.721
2446921.355 310763.425 796.00484 1.68 LOR-01 807.721
2446921.355 310763.425 795.87364 1.51 LOR-01 807.721
2446921.355 310763.425 795.73588 1.84 LOR-01 807.721
2446921.355 310763.425 795.60468 1.48 LOR-01 807.721
2446921.355 310763.425 795.48332 1.92 LOR-01 807.721
2446921.355 310763.425 795.3226 1.86 LOR-01 807.721
2446921.355 310763.425 795.18156 1.75 LOR-01 807.721
```

```
2446921.355 310763.425 795.0438 1.69 LOR-01 807.721
2446921.355 310763.425 794.90932 1.61 LOR-01 807.721
2446921.355 310763.425 794.76828 1.58 LOR-01 807.721
2446921.355 310763.425 794.66988 1.49 LOR-01 807.721
2446921.355 310763.425 794.5354 1.73 LOR-01 807.721
2446921.355 310763.425 794.39436 1.53 LOR-01 807.721
2446921.355 310763.425 794.2566 1.49 LOR-01 807.721
2446921.355 310763.425 794.13196 1.46 LOR-01 807.721
2446921.355 310763.425 794.03028 1.35 LOR-01 807.721
2446921.355 310763.425 793.92532 1.28 LOR-01 807.721
2446921.355 310763.425 793.81708 1.43 LOR-01 807.721
2446921.355 310763.425 793.67932 1.4 LOR-01 807.721
2446921.355 310763.425 793.56124 1.5 LOR-01 807.721
2446921.355 310763.425 793.46284 1.38 LOR-01 807.721
2446921.355 310763.425 793.32836 1.5 LOR-01 807.721
2446921.355 310763.425 793.2234 1.7 LOR-01 807.721
2446921.355 310763.425 793.15452 1.32 LOR-01 807.721
2447013.429 310749.079 809.271 2.43 LOR-02 809.271
2447013.429 310749.079 809.16604 2.95 LOR-02 809.271
2447013.429 310749.079 809.05452 2.87 LOR-02 809.271
2447013.429 310749.079 808.943 3.33 LOR-02 809.271
2447013.429 310749.079 808.8282 2.39 LOR-02 809.271
2447013.429 310749.079 808.69372 2.04 LOR-02 809.271
2447013.429 310749.079 808.57892 1.64 LOR-02 809.271
2447013.429 310749.079 808.45756 1.76 LOR-02 809.271
2447013.429 310749.079 808.33292 1.48 LOR-02 809.271
2447013.429 310749.079 808.18204 1.72 LOR-02 809.271
2447013.429 310749.079 808.05412 1.5 LOR-02 809.271
2447013.429 310749.079 807.9262 1.55 LOR-02 809.271
2447013.429 310749.079 807.79828 1.55 LOR-02 809.271
2447013.429 310749.079 807.6802 1.66 LOR-02 809.271
2447013.429 310749.079 807.56868 1.65 LOR-02 809.271
2447013.429 310749.079 807.46044 1.51 LOR-02 809.271
2447013.429 310749.079 807.3358 1.51 LOR-02 809.271
2447013.429 310749.079 807.19804 1.37 LOR-02 809.271
2447013.429 310749.079 807.06684 1.67 LOR-02 809.271
2447013.429 310749.079 806.94548 1.72 LOR-02 809.271
2447013.429 310749.079 806.80444 1.63 LOR-02 809.271
2447013.429 310749.079 806.65684 1.57 LOR-02 809.271
2447013.429 310749.079 806.47972 1.57 LOR-02 809.271
2447013.429 310749.079 806.32884 1.55 LOR-02 809.271
2447013.429 310749.079 806.18124 1.46 LOR-02 809.271
2447013.429 310749.079 806.02052 1.8 LOR-02 809.271
2447013.429 310749.079 805.92212 1.79 LOR-02 809.271
2447013.429 310749.079 805.82044 1.74 LOR-02 809.271
2447013.429 310749.079 805.71876 1.72 LOR-02 809.271
2447013.429 310749.079 805.581 1.57 LOR-02 809.271
2447013.429 310749.079 805.47932 1.59 LOR-02 809.271
2447013.429 310749.079 805.37436 1.52 LOR-02 809.271
2447013.429 310749.079 805.24972 1.64 LOR-02 809.271
2447013.429 310749.079 805.07588 1.73 LOR-02 809.271
2447013.429 310749.079 804.95124 1.79 LOR-02 809.271
2447013.429 310749.079 804.8266 1.84 LOR-02 809.271
2447013.429 310749.079 804.67572 1.63 LOR-02 809.271
2447013.429 310749.079 804.54452 1.66 LOR-02 809.271
2447013.429 310749.079 804.41988 1.51 LOR-02 809.271
2447013.429 310749.079 804.28868 1.38 LOR-02 809.271
2447013.429 310749.079 804.15092 1.59 LOR-02 809.271
2447013.429 310749.079 803.98692 1.51 LOR-02 809.271
2447013.429 310749.079 803.85572 1.72 LOR-02 809.271
2447013.429 310749.079 803.74748 1.99 LOR-02 809.271
2447013.429 310749.079 803.62284 2.09 LOR-02 809.271
2447013.429 310749.079 803.51132 2.83 LOR-02 809.271
2447013.429 310749.079 803.35388 3.22 LOR-02 809.271
2447013.429 310749.079 803.2522 2.82 LOR-02 809.271
2446946.578 310678.781 806.332 2.91 LOR-03 806.332
2446946.578 310678.781 806.21392 6.05 LOR-03 806.332
2446946.578 310678.781 806.08928 11.53 LOR-03 806.332
2446946.578 310678.781 805.97448 10.89 LOR-03 806.332
2446946.578 310678.781 805.84656 5.37 LOR-03 806.332
2446946.578 310678.781 805.7252 4.11 LOR-03 806.332
2446946.578 310678.781 805.594 3.95 LOR-03 806.332
2446946.578 310678.781 805.44968 3.76 LOR-03 806.332
2446946.578 310678.781 805.31192 2.8 LOR-03 806.332
2446946.578 310678.781 805.20696 2.78 LOR-03 806.332
2446946.578 310678.781 805.08232 2.48 LOR-03 806.332
2446946.578 310678.781 804.96424 2.33 LOR-03 806.332
2446946.578 310678.781 804.84288 2.38 LOR-03 806.332
2446946.578 310678.781 804.73136 2.82 LOR-03 806.332
2446946.578 310678.781 804.61984 2.54 LOR-03 806.332
2446946.578 310678.781 804.48208 2.67 LOR-03 806.332
2446946.578 310678.781 804.36072 2.84 LOR-03 806.332
2446946.578 310678.781 804.24264 2.69 LOR-03 806.332
2446946.578 310678.781 804.12456 2.58 LOR-03 806.332
2446946.578 310678.781 803.97368 2.47 LOR-03 806.332
2446946.578 310678.781 803.8392 2.7 LOR-03 806.332
2446946.578 310678.781 803.708 2.59 LOR-03 806.332
2446946.578 310678.781 803.58008 2.54 LOR-03 806.332
2446946.578 310678.781 803.44888 2.66 LOR-03 806.332
2446946.578 310678.781 803.31768 2.39 LOR-03 806.332
2446946.578 310678.781 803.16352 2.48 LOR-03 806.332
2446946.578 310678.781 803.03232 2.45 LOR-03 806.332
2446946.578 310678.781 802.90768 2.5 LOR-03 806.332
2446946.578 310678.781 802.7896 2.33 LOR-03 806.332
2446946.578 310678.781 802.67808 2.64 LOR-03 806.332
2446946.578 310678.781 802.56656 2.55 LOR-03 806.332
2446946.578 310678.781 802.4616 2.49 LOR-03 806.332
2446946.578 310678.781 802.3632 2.49 LOR-03 806.332
2446946.578 310678.781 802.232 2.48 LOR-03 806.332
2446946.578 310678.781 802.1172 2.42 LOR-03 806.332
2446946.578 310678.781 801.97944 2.53 LOR-03 806.332
2446946.578 310678.781 801.86136 2.27 LOR-03 806.332
```

```
2446946.578 310678.781 801.74656 2.92 LOR-03 806.332
2446946.578 310678.781 801.6252 2.53 LOR-03 806.332
2446946.578 310678.781 801.50384 2.41 LOR-03 806.332
2446946.578 310678.781 801.37264 2.55 LOR-03 806.332
2446946.578 310678.781 801.22176 2.47 LOR-03 806.332
2446946.578 310678.781 801.10696 2.47 LOR-03 806.332
2446946.578 310678.781 800.98888 2.61 LOR-03 806.332
2446946.578 310678.781 800.84128 2.77 LOR-03 806.332
2446946.578 310678.781 800.72976 2.64 LOR-03 806.332
2446946.578 310678.781 800.6248 2.67 LOR-03 806.332
2446946.578 310678.781 800.49688 2.5 LOR-03 806.332
2446946.578 310678.781 800.38536 2.59 LOR-03 806.332
2446946.578 310678.781 800.264 2.5 LOR-03 806.332
2446946.578 310678.781 800.13936 2.39 LOR-03 806.332
2446946.578 310678.781 800.018 2.37 LOR-03 806.332
2446946.578 310678.781 799.89992 2.62 LOR-03 806.332
2446946.578 310678.781 799.75888 2.15 LOR-03 806.332
2446946.578 310678.781 799.64408 2.15 LOR-03 806.332
2446946.578 310678.781 799.52928 2.13 LOR-03 806.332
2446946.578 310678.781 799.41776 2.35 LOR-03 806.332
2446946.578 310678.781 799.31608 2.16 LOR-03 806.332
2446946.578 310678.781 799.19472 2.15 LOR-03 806.332
2446946.578 310678.781 799.09304 2.4 LOR-03 806.332
2446946.578 310678.781 798.99464 2.12 LOR-03 806.332
2446946.578 310678.781 798.88968 2.22 LOR-03 806.332
2446946.578 310678.781 798.76832 2.23 LOR-03 806.332
2446946.578 310678.781 798.66336 2.48 LOR-03 806.332
2446946.578 310678.781 798.51576 2.24 LOR-03 806.332
2446946.578 310678.781 798.4108 2.55 LOR-03 806.332
2446946.578 310678.781 798.30256 2.37 LOR-03 806.332
2446946.578 310678.781 798.17792 2.32 LOR-03 806.332
2446946.578 310678.781 798.02376 2.34 LOR-03 806.332
2446946.578 310678.781 797.9024 2.39 LOR-03 806.332
2446946.578 310678.781 797.77448 2.41 LOR-03 806.332
2446946.578 310678.781 797.64 2.33 LOR-03 806.332
2446946.578 310678.781 797.51208 2.55 LOR-03 806.332
2446946.578 310678.781 797.32512 2.23 LOR-03 806.332
2446946.578 310678.781 797.17096 2.38 LOR-03 806.332
2446946.578 310678.781 797.0332 2.44 LOR-03 806.332
2446946.578 310678.781 796.89544 2.43 LOR-03 806.332
2446946.578 310678.781 796.79704 2.31 LOR-03 806.332
2446946.578 310678.781 796.656 2.35 LOR-03 806.332
2446946.578 310678.781 796.51496 2.4 LOR-03 806.332
2446946.578 310678.781 796.3936 2.46 LOR-03 806.332
2446946.578 310678.781 796.26568 2.46 LOR-03 806.332
2446946.578 310678.781 796.15744 2.57 LOR-03 806.332
2446946.578 310678.781 796.0492 2.26 LOR-03 806.332
2446946.578 310678.781 795.94096 2.32 LOR-03 806.332
2446946.578 310678.781 795.82616 2.4 LOR-03 806.332
2446946.578 310678.781 795.69824 2.4 LOR-03 806.332
2446946.578 310678.781 795.57032 2.49 LOR-03 806.332
2446946.578 310678.781 795.4588 2.5 LOR-03 806.332
2446946.578 310678.781 795.3276 2.37 LOR-03 806.332
2446946.578 310678.781 795.21608 2.56 LOR-03 806.332
2446946.578 310678.781 795.08488 2.71 LOR-03 806.332
2446946.578 310678.781 794.9832 2.56 LOR-03 806.332
2446946.578 310678.781 794.85528 2.67 LOR-03 806.332
2446946.578 310678.781 794.75688 2.3 LOR-03 806.332
2446946.578 310678.781 794.61256 2.25 LOR-03 806.332
2446946.578 310678.781 794.5076 2.45 LOR-03 806.332
2446946.578 310678.781 794.39936 2.62 LOR-03 806.332
2446946.578 310678.781 794.26488 2.4 LOR-03 806.332
2446946.578 310678.781 794.15336 2.31 LOR-03 806.332
2446946.578 310678.781 794.03856 2.28 LOR-03 806.332
2446946.578 310678.781 793.92704 2.3 LOR-03 806.332
2446946.578 310678.781 793.81552 2.48 LOR-03 806.332
2446946.578 310678.781 793.704 2.21 LOR-03 806.332
2446946.578 310678.781 793.59248 2.42 LOR-03 806.332
2446946.578 310678.781 793.45144 2.41 LOR-03 806.332
2446946.578 310678.781 793.35304 2.45 LOR-03 806.332
2446946.578 310678.781 793.25464 2.38 LOR-03 806.332
2446946.578 310678.781 793.15624 2.25 LOR-03 806.332
2446946.578 310678.781 793.05784 2.39 LOR-03 806.332
2446946.578 310678.781 792.93976 2.53 LOR-03 806.332
2446946.578 310678.781 792.84136 2.46 LOR-03 806.332
2446946.578 310678.781 792.7364 2.58 LOR-03 806.332
2446946.578 310678.781 792.61832 2.36 LOR-03 806.332
2446946.578 310678.781 792.4904 2.19 LOR-03 806.332
2446946.578 310678.781 792.38872 2.56 LOR-03 806.332
2446946.578 310678.781 792.28704 2.28 LOR-03 806.332
2446946.578 310678.781 792.1788 2.38 LOR-03 806.332
2446946.578 310678.781 792.04104 2.18 LOR-03 806.332
2446946.578 310678.781 791.92952 2.4 LOR-03 806.332
2446946.578 310678.781 791.82128 2.43 LOR-03 806.332
2446946.578 310678.781 791.69336 2.3 LOR-03 806.332
2446946.578 310678.781 791.57856 2.38 LOR-03 806.332
2446946.578 310678.781 791.46376 2.36 LOR-03 806.332
2446946.578 310678.781 791.34568 2.38 LOR-03 806.332
2446946.578 310678.781 791.23416 2.25 LOR-03 806.332
2446946.578 310678.781 791.09968 2.23 LOR-03 806.332
2446946.578 310678.781 790.9488 2.37 LOR-03 806.332
2446946.578 310678.781 790.8012 2.32 LOR-03 806.332
2446946.578 310678.781 790.66016 2.25 LOR-03 806.332
2446946.578 310678.781 790.53552 2.29 LOR-03 806.332
2446946.578 310678.781 790.3912 2.28 LOR-03 806.332
2446946.578 310678.781 790.2436 2.15 LOR-03 806.332
2446946.578 310678.781 790.11568 2.2 LOR-03 806.332
2446946.578 310678.781 790.014 2.22 LOR-03 806.332
2446946.578 310678.781 789.87624 2.48 LOR-03 806.332
2446946.578 310678.781 789.77784 2.09 LOR-03 806.332
2446946.578 310678.781 789.6532 2.4 LOR-03 806.332
2446946.578 310678.781 789.53512 2.41 LOR-03 806.332
```

```
2446946.578 310678.781 789.40392 2.66 LOR-03 806.332
2446946.578 310678.781 789.2924 2.53 LOR-03 806.332
2446946.578 310678.781 789.17104 2.51 LOR-03 806.332
2446946.578 310678.781 789.11528 2.75 LOR-03 806.332
2447017.554 310662.518 805.629 3.76 LOR-04 805.629
2447017.554 310662.518 805.52076 4.59 LOR-04 805.629
2447017.554 310662.518 805.39612 4.2 LOR-04 805.629
2447017.554 310662.518 805.2354 5.58 LOR-04 805.629
2447017.554 310662.518 805.12388 5.63 LOR-04 805.629
2447017.554 310662.518 805.00908 4.73 LOR-04 805.629
2447017.554 310662.518 804.88116 4.61 LOR-04 805.629
2447017.554 310662.518 804.76964 3.38 LOR-04 805.629
2447017.554 310662.518 804.6614 3.59 LOR-04 805.629
2447017.554 310662.518 804.54988 3.26 LOR-04 805.629
2447017.554 310662.518 804.43836 3.44 LOR-04 805.629
2447017.554 310662.518 804.33012 3.27 LOR-04 805.629
2447017.554 310662.518 804.2022 2.89 LOR-04 805.629
2447017.554 310662.518 804.09396 3.3 LOR-04 805.629
2447017.554 310662.518 803.98244 3.2 LOR-04 805.629
2447017.554 310662.518 803.87092 3 LOR-04 805.629
2447017.554 310662.518 803.72988 2.98 LOR-04 805.629
2447017.554 310662.518 803.60524 3.23 LOR-04 805.629
2447017.554 310662.518 803.45108 3.13 LOR-04 805.629
2447017.554 310662.518 803.31004 3.25 LOR-04 805.629
2447017.554 310662.518 803.17556 3.34 LOR-04 805.629
2447017.554 310662.518 803.04764 3.02 LOR-04 805.629
2447017.554 310662.518 802.91316 3.19 LOR-04 805.629
2447017.554 310662.518 802.75244 3.16 LOR-04 805.629
2447017.554 310662.518 802.62124 2.91 LOR-04 805.629
2447017.554 310662.518 802.49004 3.25 LOR-04 805.629
2447017.554 310662.518 802.34244 3.18 LOR-04 805.629
2447017.554 310662.518 802.22764 3.36 LOR-04 805.629
2447017.554 310662.518 802.08988 3.28 LOR-04 805.629
2447017.554 310662.518 801.99148 3.14 LOR-04 805.629
2447017.554 310662.518 801.88652 3.08 LOR-04 805.629
2447017.554 310662.518 801.78812 3.33 LOR-04 805.629
2447017.554 310662.518 801.6766 3.35 LOR-04 805.629
2447017.554 310662.518 801.54212 3.13 LOR-04 805.629
2447017.554 310662.518 801.40764 3.08 LOR-04 805.629
2447017.554 310662.518 801.29612 2.89 LOR-04 805.629
2447017.554 310662.518 801.19116 3.33 LOR-04 805.629
2447017.554 310662.518 801.08292 2.99 LOR-04 805.629
2447017.554 310662.518 800.97468 3.31 LOR-04 805.629
2447017.554 310662.518 800.86316 2.99 LOR-04 805.629
2447017.554 310662.518 800.7254 2.98 LOR-04 805.629
2447017.554 310662.518 800.60404 2.72 LOR-04 805.629
2447017.554 310662.518 800.48268 3.25 LOR-04 805.629
2447017.554 310662.518 800.35804 3.03 LOR-04 805.629
2447017.554 310662.518 800.22356 2.97 LOR-04 805.629
2447017.554 310662.518 800.09564 3.26 LOR-04 805.629
2447017.554 310662.518 799.9546 3.12 LOR-04 805.629
2447017.554 310662.518 799.8562 3.43 LOR-04 805.629
2447017.554 310662.518 799.75124 3.54 LOR-04 805.629
2447017.554 310662.518 799.6266 3.53 LOR-04 805.629
2447017.554 310662.518 799.52164 3.52 LOR-04 805.629
2447017.554 310662.518 799.41668 3.97 LOR-04 805.629
2447017.554 310662.518 799.31172 3.8 LOR-04 805.629
2447017.554 310662.518 799.20348 3.85 LOR-04 805.629
2447017.554 310662.518 799.08212 4.11 LOR-04 805.629
2447017.554 310662.518 798.97388 4.18 LOR-04 805.629
2447017.554 310662.518 798.8722 4.16 LOR-04 805.629
2447017.554 310662.518 798.7574 5.08 LOR-04 805.629
2447017.554 310662.518 798.6262 4.83 LOR-04 805.629
2447017.554 310662.518 798.5278 5.93 LOR-04 805.629
2447017.554 310662.518 798.48516 13.26 LOR-04 805.629
2446825.173 310759.47 801.033 2.81 LOR-05 801.033
2446825.173 310759.47 800.92804 5.1 LOR-05 801.033
2446825.173 310759.47 800.82636 23.12 LOR-05 801.033
2446825.173 310759.47 800.71812 18.43 LOR-05 801.033
2446825.173 310759.47 800.58036 14.59 LOR-05 801.033
2446825.173 310759.47 800.459 4.68 LOR-05 801.033
2446825.173 310759.47 800.3442 3.98 LOR-05 801.033
2446825.173 310759.47 800.2294 3.58 LOR-05 801.033
2446825.173 310759.47 800.1146 3.36 LOR-05 801.033
2446825.173 310759.47 799.94404 1.93 LOR-05 801.033
2446825.173 310759.47 799.8194 2.25 LOR-05 801.033
2446825.173 310759.47 799.68164 2.01 LOR-05 801.033
2446825.173 310759.47 799.52748 2.21 LOR-05 801.033
2446825.173 310759.47 799.3438 2.05 LOR-05 801.033
2446825.173 310759.47 799.21916 1.93 LOR-05 801.033
2446825.173 310759.47 799.03548 1.55 LOR-05 801.033
2446825.173 310759.47 798.88132 2.22 LOR-05 801.033
2446825.173 310759.47 798.73372 1.91 LOR-05 801.033
2446825.173 310759.47 798.57956 2.05 LOR-05 801.033
2446825.173 310759.47 798.42868 1.63 LOR-05 801.033
2446825.173 310759.47 798.27124 1.76 LOR-05 801.033
2446825.173 310759.47 798.1466 1.81 LOR-05 801.033
2446825.173 310759.47 798.04164 1.98 LOR-05 801.033
2446825.173 310759.47 797.92684 1.56 LOR-05 801.033
2446825.173 310759.47 797.8022 1.92 LOR-05 801.033
2446825.173 310759.47 797.67428 1.85 LOR-05 801.033
2446825.173 310759.47 797.52012 2.06 LOR-05 801.033
2446825.173 310759.47 797.38892 1.66 LOR-05 801.033
2446825.173 310759.47 797.25116 2.02 LOR-05 801.033
2446825.173 310759.47 797.14948 1.96 LOR-05 801.033
2446825.173 310759.47 797.01172 1.95 LOR-05 801.033
2446825.173 310759.47 796.85756 1.61 LOR-05 801.033
2446825.173 310759.47 796.74604 1.68 LOR-05 801.033
2446825.173 310759.47 796.64764 1.78 LOR-05 801.033
2446825.173 310759.47 796.54596 1.49 LOR-05 801.033
2446825.173 310759.47 796.44428 1.47 LOR-05 801.033
2446825.173 310759.47 796.33604 1.71 LOR-05 801.033
```

```
2446825.173 310759.47 796.22452 1.67 LOR-05 801.033
2446825.173 310759.47 796.07364 1.69 LOR-05 801.033
2446825.173 310759.47 795.95884 1.31 LOR-05 801.033
2446825.173 310759.47 795.8506 1.9 LOR-05 801.033
2446825.173 310759.47 795.73908 2 LOR-05 801.033
2446825.173 310759.47 795.61116 2 LOR-05 801.033
2446825.173 310759.47 795.51276 1.94 LOR-05 801.033
2446825.173 310759.47 795.35204 2.81 LOR-05 801.033
2446825.173 310759.47 795.211 1.82 LOR-05 801.033
2446825.173 310759.47 795.06996 2.22 LOR-05 801.033
2446825.173 310759.47 794.95516 2.99 LOR-05 801.033
2446825.173 310759.47 794.8502 3.1 LOR-05 801.033
2446825.173 310759.47 794.70588 3.33 LOR-05 801.033
2446825.173 310759.47 794.59764 2.26 LOR-05 801.033
2446825.173 310759.47 794.44676 2.87 LOR-05 801.033
2446825.173 310759.47 794.2926 4.4 LOR-05 801.033
2446825.173 310759.47 794.14172 5.3 LOR-05 801.033
2446825.173 310759.47 793.95476 3.89 LOR-05 801.033
2446825.173 310759.47 793.79732 2.19 LOR-05 801.033
2446825.173 310759.47 793.63988 2.07 LOR-05 801.033
2446825.173 310759.47 793.49884 3.68 LOR-05 801.033
2446825.173 310759.47 793.36436 4.36 LOR-05 801.033
2446825.173 310759.47 793.23316 6.32 LOR-05 801.033
2446825.173 310759.47 793.10524 7.3 LOR-05 801.033
2446825.173 310759.47 792.97732 7.2 LOR-05 801.033
2446825.173 310759.47 792.82972 29.73 LOR-05 801.033
2446825.173 310759.47 792.70508 35.19 LOR-05 801.033
2446825.173 310759.47 792.59028 39.68 LOR-05 801.033
2446825.173 310759.47 792.49188 33.29 LOR-05 801.033
2446825.173 310759.47 792.37052 36.2 LOR-05 801.033
2446825.173 310759.47 792.26884 36.34 LOR-05 801.033
2446825.173 310759.47 792.15076 29.72 LOR-05 801.033
2446825.173 310759.47 792.03268 32.67 LOR-05 801.033
2446825.173 310759.47 791.92772 29.16 LOR-05 801.033
2446825.173 310759.47 791.78668 16.78 LOR-05 801.033
2446825.173 310759.47 791.64892 13.09 LOR-05 801.033
2446825.173 310759.47 791.5046 18.44 LOR-05 801.033
2446825.173 310759.47 791.34716 11.11 LOR-05 801.033
2446825.173 310759.47 791.19628 12.1 LOR-05 801.033
2446825.173 310759.47 791.07164 15.47 LOR-05 801.033
2446825.173 310759.47 790.97324 17.05 LOR-05 801.033
2446825.173 310759.47 790.86172 11.32 LOR-05 801.033
2446825.173 310759.47 790.75676 31.19 LOR-05 801.033
2446825.173 310759.47 790.64196 37.28 LOR-05 801.033
2446825.173 310759.47 790.54028 41.88 LOR-05 801.033
2446825.173 310759.47 790.43532 69.04 LOR-05 801.033
2446825.173 310759.47 790.31068 61.36 LOR-05 801.033
2446825.173 310759.47 790.20244 35.69 LOR-05 801.033
2446825.173 310759.47 790.0614 35.78 LOR-05 801.033
2446825.173 310759.47 789.95972 40.34 LOR-05 801.033
2446825.173 310759.47 789.85148 69.52 LOR-05 801.033
2446825.173 310759.47 789.73996 100.98 LOR-05 801.033
2446825.173 310759.47 789.62844 71.29 LOR-05 801.033
2446825.173 310759.47 789.51364 73.58 LOR-05 801.033
2446825.173 310759.47 789.39228 46.59 LOR-05 801.033
2446825.173 310759.47 789.225 40.11 LOR-05 801.033
2446825.173 310759.47 789.1102 72.83 LOR-05 801.033
2446825.173 310759.47 789.00196 96.79 LOR-05 801.033
2446825.173 310759.47 788.8806 48.53 LOR-05 801.033
2446825.173 310759.47 788.77892 31.1 LOR-05 801.033
2446825.173 310759.47 788.68052 22.85 LOR-05 801.033
2446825.173 310759.47 788.61164 18.62 LOR-05 801.033
2446815.77 310830.037 802.995 5.08 LOR-06 802.995
2446815.77 310830.037 802.8802 7.04 LOR-06 802.995
2446815.77 310830.037 802.77852 16.61 LOR-06 802.995
2446815.77 310830.037 802.67684 17.08 LOR-06 802.995
2446815.77 310830.037 802.56532 20.44 LOR-06 802.995
2446815.77 310830.037 802.44068 18.31 LOR-06 802.995
2446815.77 310830.037 802.33244 14.65 LOR-06 802.995
2446815.77 310830.037 802.21764 11.07 LOR-06 802.995
2446815.77 310830.037 802.10284 5.56 LOR-06 802.995
2446815.77 310830.037 801.95196 3.52 LOR-06 802.995
2446815.77 310830.037 801.8142 3.56 LOR-06 802.995
2446815.77 310830.037 801.67644 3.42 LOR-06 802.995
2446815.77 310830.037 801.54524 3.96 LOR-06 802.995
2446815.77 310830.037 801.41076 3.76 LOR-06 802.995
2446815.77 310830.037 801.27956 3.66 LOR-06 802.995
2446815.77 310830.037 801.17788 3.32 LOR-06 802.995
2446815.77 310830.037 801.06964 3.36 LOR-06 802.995
2446815.77 310830.037 800.95484 3.39 LOR-06 802.995
2446815.77 310830.037 800.75804 3.6 LOR-06 802.995
2446815.77 310830.037 800.61372 3.37 LOR-06 802.995
2446815.77 310830.037 800.49236 3.61 LOR-06 802.995
2446815.77 310830.037 800.33492 3.51 LOR-06 802.995
2446815.77 310830.037 800.17748 4.14 LOR-06 802.995
2446815.77 310830.037 800.0266 5.62 LOR-06 802.995
2446815.77 310830.037 799.91508 6.86 LOR-06 802.995
2446815.77 310830.037 799.81012 5.46 LOR-06 802.995
2446815.77 310830.037 799.68548 4.82 LOR-06 802.995
2446815.77 310830.037 799.58052 3.85 LOR-06 802.995
2446815.77 310830.037 799.469 3.6 LOR-06 802.995
2446815.77 310830.037 799.33124 4.04 LOR-06 802.995
2446815.77 310830.037 799.1902 4.32 LOR-06 802.995
2446815.77 310830.037 799.059 3.88 LOR-06 802.995
2446815.77 310830.037 798.95404 4.67 LOR-06 802.995
2446815.77 310830.037 798.78348 6.18 LOR-06 802.995
2446815.77 310830.037 798.6818 7.96 LOR-06 802.995
2446815.77 310830.037 798.51452 48.07 LOR-06 802.995
2446815.77 310830.037 798.41284 77.18 LOR-06 802.995
2446815.77 310830.037 798.26852 105.29 LOR-06 802.995
2446815.77 310830.037 798.12748 133.24 LOR-06 802.995
2446815.77 310830.037 797.98316 136.23 LOR-06 802.995
```

```
2446815.77 310830.037 797.83884 165.6 LOR-06 802.995
2446815.77 310830.037 797.67156 116.83 LOR-06 802.995
2446815.77 310830.037 797.52724 111.99 LOR-06 802.995
2446815.77 310830.037 797.419 109.88 LOR-06 802.995
2446815.77 310830.037 797.29108 104.72 LOR-06 802.995
2446815.77 310830.037 797.13036 133.89 LOR-06 802.995
2446815.77 310830.037 796.98604 145.31 LOR-06 802.995
2446815.77 310830.037 796.84172 164.14 LOR-06 802.995
2446815.77 310830.037 796.69412 135.38 LOR-06 802.995
2446815.77 310830.037 796.57932 158.51 LOR-06 802.995
2446815.77 310830.037 796.39564 177.39 LOR-06 802.995
2446815.77 310830.037 796.29068 172.24 LOR-06 802.995
2446815.77 310830.037 796.14964 186.41 LOR-06 802.995
2446815.77 310830.037 796.02828 152.02 LOR-06 802.995
2446815.77 310830.037 795.9102 102.37 LOR-06 802.995
2446815.77 310830.037 795.76588 90.17 LOR-06 802.995
2446815.77 310830.037 795.65436 199.22 LOR-06 802.995
2446815.77 310830.037 795.52644 139.97 LOR-06 802.995
2446815.77 310830.037 795.39196 175.8 LOR-06 802.995
2446815.77 310830.037 795.2706 163.26 LOR-06 802.995
2446815.77 310830.037 795.15252 87.82 LOR-06 802.995
2446815.77 310830.037 794.9754 116.94 LOR-06 802.995
2446815.77 310830.037 794.83436 67.49 LOR-06 802.995
2446815.77 310830.037 794.6966 46.86 LOR-06 802.995
2446815.77 310830.037 794.55556 54.81 LOR-06 802.995
2446815.77 310830.037 794.37516 57.08 LOR-06 802.995
2446815.77 310830.037 794.23412 35.57 LOR-06 802.995
2446815.77 310830.037 794.0898 23.7 LOR-06 802.995
2446815.77 310830.037 793.9422 22.41 LOR-06 802.995
2446815.77 310830.037 793.811 17.33 LOR-06 802.995
2446815.77 310830.037 793.6962 8.48 LOR-06 802.995
2446815.77 310830.037 793.55188 5.43 LOR-06 802.995
2446815.77 310830.037 793.41412 4.79 LOR-06 802.995
2446815.77 310830.037 793.2534 3.31 LOR-06 802.995
2446815.77 310830.037 793.11564 2.46 LOR-06 802.995
2446815.77 310830.037 792.98116 3.07 LOR-06 802.995
2446815.77 310830.037 792.87292 2.84 LOR-06 802.995
2446815.77 310830.037 792.77452 3.27 LOR-06 802.995
2446815.77 310830.037 792.66956 3.04 LOR-06 802.995
2446815.77 310830.037 792.52524 2.89 LOR-06 802.995
2446815.77 310830.037 792.3842 3.44 LOR-06 802.995
2446815.77 310830.037 792.27268 3.4 LOR-06 802.995
2446815.77 310830.037 792.23988 3.95 LOR-06 802.995
2446825.28 310674.835 804.0588 105.11 LOR-07 805.994
2446825.28 310674.835 803.94728 1.27 LOR-07 805.994
2446825.28 310674.835 803.81936 1.28 LOR-07 805.994
2446825.28 310674.835 803.68816 0.84 LOR-07 805.994
2446825.28 310674.835 803.5832 1.04 LOR-07 805.994
2446825.28 310674.835 803.42904 1.28 LOR-07 805.994
2446825.28 310674.835 803.3044 1.16 LOR-07 805.994
2446825.28 310674.835 803.17648 1.21 LOR-07 805.994
2446825.28 310674.835 803.05512 1.31 LOR-07 805.994
2446825.28 310674.835 802.94688 1.01 LOR-07 805.994
2446825.28 310674.835 802.80912 1.67 LOR-07 805.994
2446825.28 310674.835 802.67792 1.11 LOR-07 805.994
2446825.28 310674.835 802.55328 1.49 LOR-07 805.994
2446825.28 310674.835 802.42208 1.22 LOR-07 805.994
2446825.28 310674.835 802.31384 1.19 LOR-07 805.994
2446825.28 310674.835 802.20232 1.07 LOR-07 805.994
2446825.28 310674.835 802.06784 1.21 LOR-07 805.994
2446825.28 310674.835 801.90712 1.14 LOR-07 805.994
2446825.28 310674.835 801.75296 0.99 LOR-07 805.994
2446825.28 310674.835 801.57584 1.07 LOR-07 805.994
2446825.28 310674.835 801.42496 1.17 LOR-07 805.994
2446825.28 310674.835 801.2708 1.36 LOR-07 805.994
2446825.28 310674.835 801.1232 1 LOR-07 805.994
2446825.28 310674.835 800.99856 1.44 LOR-07 805.994
2446825.28 310674.835 800.86408 2 LOR-07 805.994
2446825.28 310674.835 800.6968 1.63 LOR-07 805.994
2446825.28 310674.835 800.5492 2.99 LOR-07 805.994
2446825.28 310674.835 800.39832 1.62 LOR-07 805.994
2446825.28 310674.835 800.24416 1.8 LOR-07 805.994
2446825.28 310674.835 800.09 2.68 LOR-07 805.994
2446825.28 310674.835 799.93912 1.5 LOR-07 805.994
2446825.28 310674.835 799.75544 1.98 LOR-07 805.994
2446825.28 310674.835 799.60128 2.16 LOR-07 805.994
2446825.28 310674.835 799.44712 2.89 LOR-07 805.994
2446825.28 310674.835 799.29296 2.34 LOR-07 805.994
2446825.28 310674.835 799.1388 2.71 LOR-07 805.994
2446825.28 310674.835 799.03384 2.47 LOR-07 805.994
2446825.28 310674.835 798.92888 1.87 LOR-07 805.994
2446825.28 310674.835 798.77472 1.81 LOR-07 805.994
2446825.28 310674.835 798.62384 1.66 LOR-07 805.994
2446825.28 310674.835 798.47624 1.9 LOR-07 805.994
2446825.28 310674.835 798.27288 1.04 LOR-07 805.994
2446825.28 310674.835 798.09248 1.61 LOR-07 805.994
2446825.28 310674.835 797.9252 1.36 LOR-07 805.994
2446825.28 310674.835 797.82024 1.11 LOR-07 805.994
2446825.28 310674.835 797.68248 1.59 LOR-07 805.994
2446825.28 310674.835 797.54144 1.09 LOR-07 805.994
2446825.28 310674.835 797.39712 1.36 LOR-07 805.994
2446825.28 310674.835 797.25936 1.93 LOR-07 805.994
2446825.28 310674.835 797.11832 2.28 LOR-07 805.994
2446825.28 310674.835 796.91168 3.72 LOR-07 805.994
2446825.28 310674.835 796.7936 3.34 LOR-07 805.994
2446825.28 310674.835 796.5968 4.77 LOR-07 805.994
2446825.28 310674.835 796.47872 3.71 LOR-07 805.994
2446825.28 310674.835 796.28848 3.78 LOR-07 805.994
2446825.28 310674.835 796.12776 3.71 LOR-07 805.994
2446825.28 310674.835 796.0228 2.74 LOR-07 805.994
2446825.28 310674.835 795.8424 2.25 LOR-07 805.994
2446825.28 310674.835 795.73088 1.51 LOR-07 805.994
```

```
2446825.28 310674.835 795.54064 1.21 LOR-07 805.994
2446825.28 310674.835 795.43568 1.28 LOR-07 805.994
2446825.28 310674.835 795.25856 2.08 LOR-07 805.994
2446825.28 310674.835 795.10768 2.58 LOR-07 805.994
2446825.28 310674.835 794.95024 1.45 LOR-07 805.994
2446825.28 310674.835 794.80264 1.98 LOR-07 805.994
2446825.28 310674.835 794.65832 1.32 LOR-07 805.994
2446825.28 310674.835 794.51728 1.98 LOR-07 805.994
2446825.28 310674.835 794.35656 2.14 LOR-07 805.994
2446825.28 310674.835 794.21552 3.36 LOR-07 805.994
2446825.28 310674.835 794.08104 2.45 LOR-07 805.994
2446825.28 310674.835 793.93672 2.26 LOR-07 805.994
2446825.28 310674.835 793.82848 1.54 LOR-07 805.994
2446825.28 310674.835 793.70056 2.11 LOR-07 805.994
2446825.28 310674.835 793.57592 2.92 LOR-07 805.994
2446825.28 310674.835 793.4152 2.59 LOR-07 805.994
2446825.28 310674.835 793.284 2.44 LOR-07 805.994
2446825.28 310674.835 793.14624 2.23 LOR-07 805.994
2446825.28 310674.835 792.98552 2.35 LOR-07 805.994
2446825.28 310674.835 792.88712 2.54 LOR-07 805.994
2446825.28 310674.835 792.76248 2.84 LOR-07 805.994
2446825.28 310674.835 792.6608 3.46 LOR-07 805.994
2446825.28 310674.835 792.50336 3.46 LOR-07 805.994
2446825.28 310674.835 792.35904 4.71 LOR-07 805.994
2446825.28 310674.835 792.20488 16.25 LOR-07 805.994
2446825.28 310674.835 792.10648 15.95 LOR-07 805.994
2446825.28 310674.835 792.09008 12.42 LOR-07 805.994
2446728.121 310656.546 803.129 3.37 LOR-08 803.129
2446728.121 310656.546 802.98796 3.82 LOR-08 803.129
2446728.121 310656.546 802.8174 5.29 LOR-08 803.129
2446728.121 310656.546 802.66324 2.79 LOR-08 803.129
2446728.121 310656.546 802.5222 2.96 LOR-08 803.129
2446728.121 310656.546 802.38444 2.15 LOR-08 803.129
2446728.121 310656.546 802.27948 2.22 LOR-08 803.129
2446728.121 310656.546 802.16468 2.34 LOR-08 803.129
2446728.121 310656.546 802.04332 2.39 LOR-08 803.129
2446728.121 310656.546 801.92852 2.26 LOR-08 803.129
2446728.121 310656.546 801.76124 2.32 LOR-08 803.129
2446728.121 310656.546 801.6202 2.42 LOR-08 803.129
2446728.121 310656.546 801.48244 2.01 LOR-08 803.129
2446728.121 310656.546 801.3414 2.17 LOR-08 803.129
2446728.121 310656.546 801.20036 2.23 LOR-08 803.129
2446728.121 310656.546 801.0626 2.24 LOR-08 803.129
2446728.121 310656.546 800.88548 2.52 LOR-08 803.129
2446728.121 310656.546 800.73788 2.31 LOR-08 803.129
2446728.121 310656.546 800.587 2.56 LOR-08 803.129
2446728.121 310656.546 800.42956 2.28 LOR-08 803.129
2446728.121 310656.546 800.2754 1.94 LOR-08 803.129
2446728.121 310656.546 800.16388 2.19 LOR-08 803.129
2446728.121 310656.546 799.9966 2.36 LOR-08 803.129
2446728.121 310656.546 799.86868 2.08 LOR-08 803.129
2446728.121 310656.546 799.73748 2.32 LOR-08 803.129
2446728.121 310656.546 799.58332 2.21 LOR-08 803.129
2446728.121 310656.546 799.43244 1.96 LOR-08 803.129
2446728.121 310656.546 799.275 2.15 LOR-08 803.129
2446728.121 310656.546 799.03228 2.43 LOR-08 803.129
2446728.121 310656.546 798.8978 2.3 LOR-08 803.129
2446728.121 310656.546 798.76988 1.92 LOR-08 803.129
2446728.121 310656.546 798.63212 2.37 LOR-08 803.129
2446728.121 310656.546 798.4878 2.22 LOR-08 803.129
2446728.121 310656.546 798.3238 2.28 LOR-08 803.129
2446728.121 310656.546 798.127 2.21 LOR-08 803.129
2446728.121 310656.546 797.94988 2.18 LOR-08 803.129
2446728.121 310656.546 797.76948 2.58 LOR-08 803.129
2446728.121 310656.546 797.58908 3.35 LOR-08 803.129
2446728.121 310656.546 797.4874 3.89 LOR-08 803.129
2446728.121 310656.546 797.307 3.3 LOR-08 803.129
2446728.121 310656.546 797.14956 2.23 LOR-08 803.129
2446728.121 310656.546 797.00524 2.62 LOR-08 803.129
2446728.121 310656.546 796.89044 3.26 LOR-08 803.129
2446728.121 310656.546 796.7658 3.03 LOR-08 803.129
2446728.121 310656.546 796.64444 3.89 LOR-08 803.129
2446728.121 310656.546 796.49356 3.42 LOR-08 803.129
2446728.121 310656.546 796.36892 3.33 LOR-08 803.129
2446728.121 310656.546 796.24428 2.4 LOR-08 803.129
2446728.121 310656.546 796.12948 2.42 LOR-08 803.129
2446728.121 310656.546 796.03108 2.68 LOR-08 803.129
2446728.121 310656.546 795.89004 2.63 LOR-08 803.129
2446728.121 310656.546 795.73588 2.14 LOR-08 803.129
2446728.121 310656.546 795.585 2.27 LOR-08 803.129
2446728.121 310656.546 795.40788 2.35 LOR-08 803.129
2446728.121 310656.546 795.27012 2.92 LOR-08 803.129
2446728.121 310656.546 795.1258 2.47 LOR-08 803.129
2446728.121 310656.546 795.02412 3.39 LOR-08 803.129
2446728.121 310656.546 794.91916 6.39 LOR-08 803.129
2446728.121 310656.546 794.80764 5.46 LOR-08 803.129
2446728.121 310656.546 794.69612 3.46 LOR-08 803.129
2446728.121 310656.546 794.58788 3.66 LOR-08 803.129
2446728.121 310656.546 794.45996 3.28 LOR-08 803.129
2446728.121 310656.546 794.34844 2.96 LOR-08 803.129
2446728.121 310656.546 794.23692 4.24 LOR-08 803.129
2446728.121 310656.546 794.11556 3.63 LOR-08 803.129
2446728.121 310656.546 793.9942 3.24 LOR-08 803.129
2446728.121 310656.546 793.87284 5.61 LOR-08 803.129
2446728.121 310656.546 793.74492 7.47 LOR-08 803.129
2446728.121 310656.546 793.57436 7.75 LOR-08 803.129
2446728.121 310656.546 793.42348 28.42 LOR-08 803.129
2446728.121 310656.546 793.28572 13.89 LOR-08 803.129
2446728.121 310656.546 793.15452 16.86 LOR-08 803.129
2446728.121 310656.546 793.04956 17.08 LOR-08 803.129
2446728.121 310656.546 792.93804 33.13 LOR-08 803.129
2446728.121 310656.546 792.83964 34.71 LOR-08 803.129
```

```
2446728.121 310656.546 792.6822 34.68 LOR-08 803.129
2446728.121 310656.546 792.56412 36.28 LOR-08 803.129
2446728.121 310656.546 792.44932 40.41 LOR-08 803.129
2446728.121 310656.546 792.3378 45.63 LOR-08 803.129
2446728.121 310656.546 792.22628 46.3 LOR-08 803.129
2446728.121 310656.546 792.0918 43.51 LOR-08 803.129
2446728.121 310656.546 791.98356 34.87 LOR-08 803.129
2446728.121 310656.546 791.86548 30.21 LOR-08 803.129
2446728.121 310656.546 791.72444 36.25 LOR-08 803.129
2446728.121 310656.546 791.567 42.8 LOR-08 803.129
2446728.121 310656.546 791.43252 39.68 LOR-08 803.129
2446728.121 310656.546 791.29476 46.72 LOR-08 803.129
2446728.121 310656.546 791.15372 63.26 LOR-08 803.129
2446728.121 310656.546 791.01924 52.75 LOR-08 803.129
2446728.121 310656.546 790.88148 51.45 LOR-08 803.129
2446728.121 310656.546 790.71092 38.75 LOR-08 803.129
2446728.121 310656.546 790.56332 40.96 LOR-08 803.129
2446728.121 310656.546 790.419 35.6 LOR-08 803.129
2446728.121 310656.546 790.26812 33.74 LOR-08 803.129
2446728.121 310656.546 790.11724 33.19 LOR-08 803.129
2446728.121 310656.546 790.01228 32.38 LOR-08 803.129
2446728.121 310656.546 789.86796 39.68 LOR-08 803.129
2446728.121 310656.546 789.72692 59.38 LOR-08 803.129
2446728.121 310656.546 789.58588 55.7 LOR-08 803.129
2446728.121 310656.546 789.46124 59.52 LOR-08 803.129
2446728.121 310656.546 789.32348 66.51 LOR-08 803.129
2446728.121 310656.546 789.21852 50.05 LOR-08 803.129
2446728.121 310656.546 789.06436 59.59 LOR-08 803.129
2446728.121 310656.546 788.92988 62.96 LOR-08 803.129
2446728.121 310656.546 788.8282 62.04 LOR-08 803.129
2446728.121 310656.546 788.70356 64.47 LOR-08 803.129
2446728.121 310656.546 788.59532 69.07 LOR-08 803.129
2446728.121 310656.546 788.48708 68.33 LOR-08 803.129
2446728.121 310656.546 788.3854 62.14 LOR-08 803.129
2446728.121 310656.546 788.35588 67.84 LOR-08 803.129
2446727.28 310572.316 803.347 3.18 LOR-09 803.347
2446727.28 310572.316 803.20924 2.59 LOR-09 803.347
2446727.28 310572.316 803.06164 2.06 LOR-09 803.347
2446727.28 310572.316 802.9534 2.49 LOR-09 803.347
2446727.28 310572.316 802.85172 2.39 LOR-09 803.347
2446727.28 310572.316 802.74348 2.42 LOR-09 803.347
2446727.28 310572.316 802.61228 2.36 LOR-09 803.347
2446727.28 310572.316 802.50404 2.88 LOR-09 803.347
2446727.28 310572.316 802.39908 2.92 LOR-09 803.347
2446727.28 310572.316 802.2974 2.62 LOR-09 803.347
2446727.28 310572.316 802.19244 2.46 LOR-09 803.347
2446727.28 310572.316 802.08748 2.23 LOR-09 803.347
2446727.28 310572.316 801.96612 2.24 LOR-09 803.347
2446727.28 310572.316 801.83492 1.76 LOR-09 803.347
2446727.28 310572.316 801.71356 2 LOR-09 803.347
2446727.28 310572.316 801.59548 1.77 LOR-09 803.347
2446727.28 310572.316 801.4938 2.16 LOR-09 803.347
2446727.28 310572.316 801.35604 2.18 LOR-09 803.347
2446727.28 310572.316 801.24124 0.59 LOR-09 803.347
2446727.28 310572.316 801.0674 1.59 LOR-09 803.347
2446727.28 310572.316 800.92636 2.13 LOR-09 803.347
2446727.28 310572.316 800.78204 2.09 LOR-09 803.347
2446727.28 310572.316 800.63772 1.21 LOR-09 803.347
2446727.28 310572.316 800.5098 2.27 LOR-09 803.347
2446727.28 310572.316 800.3786 2.25 LOR-09 803.347
2446727.28 310572.316 800.231 2.26 LOR-09 803.347
2446727.28 310572.316 800.10308 2.16 LOR-09 803.347
2446727.28 310572.316 799.99156 2 LOR-09 803.347
2446727.28 310572.316 799.88332 2.1 LOR-09 803.347
2446727.28 310572.316 799.73572 2.03 LOR-09 803.347
2446727.28 310572.316 799.6242 2.19 LOR-09 803.347
2446727.28 310572.316 799.493 0.52 LOR-09 803.347
2446727.28 310572.316 799.37164 2.04 LOR-09 803.347
2446727.28 310572.316 799.247 2.13 LOR-09 803.347
2446727.28 310572.316 799.12236 2.01 LOR-09 803.347
2446727.28 310572.316 798.95836 2.13 LOR-09 803.347
2446727.28 310572.316 798.85668 1.97 LOR-09 803.347
2446727.28 310572.316 798.7058 2.42 LOR-09 803.347
2446727.28 310572.316 798.58444 2.04 LOR-09 803.347
2446727.28 310572.316 798.45324 2.17 LOR-09 803.347
2446727.28 310572.316 798.2958 2.12 LOR-09 803.347
2446727.28 310572.316 798.16132 2.23 LOR-09 803.347
2446727.28 310572.316 798.02684 1.93 LOR-09 803.347
2446727.28 310572.316 797.853 2.43 LOR-09 803.347
2446727.28 310572.316 797.70868 2.23 LOR-09 803.347
2446727.28 310572.316 797.56436 2.05 LOR-09 803.347
2446727.28 310572.316 797.42332 2.57 LOR-09 803.347
2446727.28 310572.316 797.279 2.29 LOR-09 803.347
2446727.28 310572.316 797.11172 2.26 LOR-09 803.347
2446727.28 310572.316 796.97724 2.44 LOR-09 803.347
2446727.28 310572.316 796.84932 2.34 LOR-09 803.347
2446727.28 310572.316 796.67876 2.15 LOR-09 803.347
2446727.28 310572.316 796.53772 2.13 LOR-09 803.347
2446727.28 310572.316 796.39996 3.26 LOR-09 803.347
2446727.28 310572.316 796.2622 2.39 LOR-09 803.347
2446727.28 310572.316 796.131 3.54 LOR-09 803.347
2446727.28 310572.316 796.02604 4.14 LOR-09 803.347
2446727.28 310572.316 795.88172 4.39 LOR-09 803.347
2446727.28 310572.316 795.77348 5.27 LOR-09 803.347
2446727.28 310572.316 795.66196 5.92 LOR-09 803.347
2446727.28 310572.316 795.53076 5.2 LOR-09 803.347
2446727.28 310572.316 795.41924 5.36 LOR-09 803.347
2446727.28 310572.316 795.311 6.23 LOR-09 803.347
2446727.28 310572.316 795.20276 6.71 LOR-09 803.347
2446727.28 310572.316 795.09124 11.97 LOR-09 803.347
2446727.28 310572.316 794.9666 12.08 LOR-09 803.347
2446727.28 310572.316 794.89444 26.45 LOR-09 803.347
```

```
2446821.979 310559.633 804.968 0.12 LOR-10 804.968
2446821.979 310559.633 804.84992 0.44 LOR-10 804.968
2446821.979 310559.633 804.73512 0.33 LOR-10 804.968
2446821.979 310559.633 804.6728 0.09 LOR-10 804.968
2446821.979 310559.633 804.56128 0.14 LOR-10 804.968
2446821.979 310559.633 804.43992 0.11 LOR-10 804.968
2446821.979 310559.633 804.3448 0.02 LOR-10 804.968
2446821.979 310559.633 804.1972 0.24 LOR-10 804.968
2446821.979 310559.633 804.05944 0.47 LOR-10 804.968
2446821.979 310559.633 804.02008 0 LOR-10 804.968
2446821.979 310559.633 803.88888 0.02 LOR-10 804.968
2446821.979 310559.633 803.79048 -0.02 LOR-10 804.968
2446821.979 310559.633 803.66912 -0.25 LOR-10 804.968
2446821.979 310559.633 803.54776 -0.33 LOR-10 804.968
2446821.979 310559.633 803.41328 0.6 LOR-10 804.968
2446821.979 310559.633 803.29848 0.07 LOR-10 804.968
2446821.979 310559.633 803.164 0.45 LOR-10 804.968
2446821.979 310559.633 803.0492 0.01 LOR-10 804.968
2446821.979 310559.633 803.00984 0.32 LOR-10 804.968
2446821.979 310559.633 802.95408 0.17 LOR-10 804.968
2446821.979 310559.633 802.89504 0.06 LOR-10 804.968
2446821.979 310559.633 802.77696 -0.66 LOR-10 804.968
2446821.979 310559.633 802.63592 -0.01 LOR-10 804.968
2446821.979 310559.633 802.54736 0.01 LOR-10 804.968
2446821.979 310559.633 802.40632 -0.24 LOR-10 804.968
2446821.979 310559.633 802.29808 -0.33 LOR-10 804.968
2446821.979 310559.633 802.18984 -0.03 LOR-10 804.968
2446821.979 310559.633 802.08488 -0.28 LOR-10 804.968
2446821.979 310559.633 802.02256 0 LOR-10 804.968
2446821.979 310559.633 801.9176 -0.18 LOR-10 804.968
2446821.979 310559.633 801.81592 0.01 LOR-10 804.968
2446821.979 310559.633 801.66176 -0.36 LOR-10 804.968
2446821.979 310559.633 801.56008 -0.48 LOR-10 804.968
2446821.979 310559.633 801.44856 -0.05 LOR-10 804.968
2446821.979 310559.633 801.3108 -0.19 LOR-10 804.968
2446821.979 310559.633 801.1632 -0.24 LOR-10 804.968
2446821.979 310559.633 801.00904 -0.28 LOR-10 804.968
2446821.979 310559.633 800.90736 -0.5 LOR-10 804.968
2446821.979 310559.633 800.80568 -0.58 LOR-10 804.968
2446821.979 310559.633 800.75976 9.74 LOR-10 804.968
2446821.979 310559.633 800.6384 4.33 LOR-10 804.968
2446821.979 310559.633 800.51048 4.41 LOR-10 804.968
2446821.979 310559.633 800.3924 5.02 LOR-10 804.968
2446821.979 310559.633 800.23168 12.97 LOR-10 804.968
2446821.979 310559.633 800.10704 13.41 LOR-10 804.968
2446821.979 310559.633 799.98568 14.83 LOR-10 804.968
2446821.979 310559.633 799.85776 14.06 LOR-10 804.968
2446821.979 310559.633 799.71672 17.44 LOR-10 804.968
2446821.979 310559.633 799.53304 17.56 LOR-10 804.968
2446821.979 310559.633 799.38544 14.24 LOR-10 804.968
2446821.979 310559.633 799.25424 11.15 LOR-10 804.968
2446821.979 310559.633 799.13616 9.65 LOR-10 804.968
2446821.979 310559.633 798.982 2.93 LOR-10 804.968
2446821.979 310559.633 798.87704 3.07 LOR-10 804.968
2446821.979 310559.633 798.77536 3.3 LOR-10 804.968
2446821.979 310559.633 798.64416 6.08 LOR-10 804.968
2446821.979 310559.633 798.54248 7.31 LOR-10 804.968
2446821.979 310559.633 798.4408 7.24 LOR-10 804.968
2446821.979 310559.633 798.33584 6.67 LOR-10 804.968
2446821.979 310559.633 798.23088 12.11 LOR-10 804.968
2446821.979 310559.633 798.1292 13.17 LOR-10 804.968
2446821.979 310559.633 798.00456 9.96 LOR-10 804.968
2446821.979 310559.633 797.90288 19.04 LOR-10 804.968
2446821.979 310559.633 797.79464 18.7 LOR-10 804.968
2446821.979 310559.633 797.67 13.55 LOR-10 804.968
2446821.979 310559.633 797.64048 20.29 LOR-10 804.968
2446825.643 310477.594 804.878 0.28 LOR-11 804.878
2446825.643 310477.594 804.74024 3.03 LOR-11 804.878
2446825.643 310477.594 804.60904 1.31 LOR-11 804.878
2446825.643 310477.594 804.47456 0.77 LOR-11 804.878
2446825.643 310477.594 804.3696 0.02 LOR-11 804.878
2446825.643 310477.594 804.2384 -0.43 LOR-11 804.878
2446825.643 310477.594 804.13344 -0.8 LOR-11 804.878
2446825.643 310477.594 803.98256 -1.02 LOR-11 804.878
2446825.643 310477.594 803.80544 -0.81 LOR-11 804.878
2446825.643 310477.594 803.66768 -0.48 LOR-11 804.878
2446825.643 310477.594 803.52992 -0.69 LOR-11 804.878
2446825.643 310477.594 803.3856 -0.74 LOR-11 804.878
2446825.643 310477.594 803.23472 -0.84 LOR-11 804.878
2446825.643 310477.594 803.13632 -0.61 LOR-11 804.878
2446825.643 310477.594 803.03464 -0.77 LOR-11 804.878
2446825.643 310477.594 802.93624 -0.78 LOR-11 804.878
2446825.643 310477.594 802.80504 -0.81 LOR-11 804.878
2446825.643 310477.594 802.70664 -1.1 LOR-11 804.878
2446825.643 310477.594 802.5328 2.55 LOR-11 804.878
2446825.643 310477.594 802.39176 2.58 LOR-11 804.878
2446825.643 310477.594 802.24744 2.6 LOR-11 804.878
2446825.643 310477.594 802.10312 2.62 LOR-11 804.878
2446825.643 310477.594 801.93256 2.68 LOR-11 804.878
2446825.643 310477.594 801.7784 2.75 LOR-11 804.878
2446825.643 310477.594 801.62424 2.47 LOR-11 804.878
2446825.643 310477.594 801.49632 3.11 LOR-11 804.878
2446825.643 310477.594 801.38808 2.5 LOR-11 804.878
2446825.643 310477.594 801.24376 2.68 LOR-11 804.878
2446825.643 310477.594 801.09616 2.74 LOR-11 804.878
2446825.643 310477.594 800.91576 2.57 LOR-11 804.878
2446825.643 310477.594 800.73208 2.42 LOR-11 804.878
2446825.643 310477.594 800.57136 2.53 LOR-11 804.878
2446825.643 310477.594 800.40408 2.57 LOR-11 804.878
2446825.643 310477.594 800.30568 2.55 LOR-11 804.878
2446825.643 310477.594 800.14496 2.81 LOR-11 804.878
2446825.643 310477.594 799.97768 2.66 LOR-11 804.878
```

```
2446825.643 310477.594 799.81368 2.56 LOR-11 804.878
2446825.643 310477.594 799.71528 2.73 LOR-11 804.878
2446825.643 310477.594 799.55128 2.7 LOR-11 804.878
2446825.643 310477.594 799.39056 2.52 LOR-11 804.878
2446825.643 310477.594 799.2528 2.84 LOR-11 804.878
2446825.643 310477.594 799.09864 2.47 LOR-11 804.878
2446825.643 310477.594 798.9576 2.56 LOR-11 804.878
2446825.643 310477.594 798.82968 2.34 LOR-11 804.878
2446825.643 310477.594 798.66568 2.44 LOR-11 804.878
2446825.643 310477.594 798.56072 3.22 LOR-11 804.878
2446825.643 310477.594 798.41312 3.32 LOR-11 804.878
2446825.643 310477.594 798.25568 3.82 LOR-11 804.878
2446825.643 310477.594 798.154 3.57 LOR-11 804.878
2446825.643 310477.594 797.99656 2.79 LOR-11 804.878
2446825.643 310477.594 797.82928 3.22 LOR-11 804.878
2446825.643 310477.594 797.66528 2.96 LOR-11 804.878
2446825.643 310477.594 797.55048 2.83 LOR-11 804.878
2446825.643 310477.594 797.37336 3.08 LOR-11 804.878
2446825.643 310477.594 797.19296 5.07 LOR-11 804.878
2446825.643 310477.594 797.08144 5.4 LOR-11 804.878
2446825.643 310477.594 796.90104 5.15 LOR-11 804.878
2446825.643 310477.594 796.71736 5.5 LOR-11 804.878
2446825.643 310477.594 796.53368 7.08 LOR-11 804.878
2446825.643 310477.594 796.42872 5.86 LOR-11 804.878
2446825.643 310477.594 796.27456 4.87 LOR-11 804.878
2446825.643 310477.594 796.1204 5.8 LOR-11 804.878
2446825.643 310477.594 796.0384 6.48 LOR-11 804.878
2446751.448 310762.021 801.59 2.94 LOR-12 801.59
2446751.448 310762.021 801.44896 3.24 LOR-12 801.59
2446751.448 310762.021 801.3112 3.63 LOR-12 801.59
2446751.448 310762.021 801.1964 3.25 LOR-12 801.59
2446751.448 310762.021 801.07832 3.44 LOR-12 801.59
2446751.448 310762.021 800.96352 3.25 LOR-12 801.59
2446751.448 310762.021 800.84544 3.27 LOR-12 801.59
2446751.448 310762.021 800.70768 3.31 LOR-12 801.59
2446751.448 310762.021 800.59944 3.36 LOR-12 801.59
2446751.448 310762.021 800.48136 3.33 LOR-12 801.59
2446751.448 310762.021 800.37968 3.21 LOR-12 801.59
2446751.448 310762.021 800.26816 3.05 LOR-12 801.59
2446751.448 310762.021 800.14352 3.18 LOR-12 801.59
2446751.448 310762.021 800.00904 3.21 LOR-12 801.59
2446751.448 310762.021 799.89096 3.12 LOR-12 801.59
2446751.448 310762.021 799.7696 3.16 LOR-12 801.59
2446751.448 310762.021 799.66792 2.81 LOR-12 801.59
2446751.448 310762.021 799.54984 3.05 LOR-12 801.59
2446751.448 310762.021 799.44816 3.29 LOR-12 801.59
2446751.448 310762.021 799.31696 3.35 LOR-12 801.59
2446751.448 310762.021 799.18576 3.11 LOR-12 801.59
2446751.448 310762.021 799.02504 3.21 LOR-12 801.59
2446751.448 310762.021 798.89056 3.45 LOR-12 801.59
2446751.448 310762.021 798.75608 3.06 LOR-12 801.59
2446751.448 310762.021 798.63144 2.9 LOR-12 801.59
2446751.448 310762.021 798.4904 3.18 LOR-12 801.59
2446751.448 310762.021 798.34936 3.1 LOR-12 801.59
2446751.448 310762.021 798.20832 3.7 LOR-12 801.59
2446751.448 310762.021 798.07384 4.94 LOR-12 801.59
2446751.448 310762.021 797.9492 5 LOR-12 801.59
2446751.448 310762.021 797.83768 6.47 LOR-12 801.59
2446751.448 310762.021 797.72944 5.84 LOR-12 801.59
2446751.448 310762.021 797.61792 5.15 LOR-12 801.59
2446751.448 310762.021 797.46376 3.56 LOR-12 801.59
2446751.448 310762.021 797.30632 3.22 LOR-12 801.59
2446751.448 310762.021 797.19808 3.01 LOR-12 801.59
2446751.448 310762.021 797.08656 3.08 LOR-12 801.59
2446751.448 310762.021 796.97504 2.87 LOR-12 801.59
2446751.448 310762.021 796.86352 2.88 LOR-12 801.59
2446751.448 310762.021 796.76512 2.55 LOR-12 801.59
2446751.448 310762.021 796.65688 3 LOR-12 801.59
2446751.448 310762.021 796.5552 3.27 LOR-12 801.59
2446751.448 310762.021 796.45024 3.07 LOR-12 801.59
2446751.448 310762.021 796.35184 3.41 LOR-12 801.59
2446751.448 310762.021 796.2436 4.03 LOR-12 801.59
2446751.448 310762.021 796.11896 3.53 LOR-12 801.59
2446751.448 310762.021 796.00744 3.55 LOR-12 801.59
2446751.448 310762.021 795.90248 3.5 LOR-12 801.59
2446751.448 310762.021 795.78112 4.91 LOR-12 801.59
2446751.448 310762.021 795.604 6.91 LOR-12 801.59
2446751.448 310762.021 795.4728 9.68 LOR-12 801.59
2446751.448 310762.021 795.37112 37.98 LOR-12 801.59
2446751.448 310762.021 795.2596 50.02 LOR-12 801.59
2446751.448 310762.021 795.0956 53.2 LOR-12 801.59
2446751.448 310762.021 794.96112 37.1 LOR-12 801.59
2446751.448 310762.021 794.8332 49.22 LOR-12 801.59
2446751.448 310762.021 794.7184 37.5 LOR-12 801.59
2446751.448 310762.021 794.58064 62 LOR-12 801.59
2446751.448 310762.021 794.46584 62.8 LOR-12 801.59
2446751.448 310762.021 794.34776 47.09 LOR-12 801.59
2446751.448 310762.021 794.23624 58.33 LOR-12 801.59
2446751.448 310762.021 794.10504 41.02 LOR-12 801.59
2446751.448 310762.021 793.95416 51.65 LOR-12 801.59
2446751.448 310762.021 793.84592 31.2 LOR-12 801.59
2446751.448 310762.021 793.69504 41.29 LOR-12 801.59
2446751.448 310762.021 793.54744 71.56 LOR-12 801.59
2446751.448 310762.021 793.42936 43.41 LOR-12 801.59
2446751.448 310762.021 793.28176 37.41 LOR-12 801.59
2446751.448 310762.021 793.13744 29.29 LOR-12 801.59
2446751.448 310762.021 792.96032 53.75 LOR-12 801.59
2446751.448 310762.021 792.816 11.33 LOR-12 801.59
2446751.448 310762.021 792.67496 14.81 LOR-12 801.59
2446751.448 310762.021 792.54376 15.09 LOR-12 801.59
2446751.448 310762.021 792.44208 13.64 LOR-12 801.59
2446751.448 310762.021 792.33712 7.42 LOR-12 801.59
```

```
2446751.448 310762.021 792.1928 6.92 LOR-12 801.59
2446751.448 310762.021 792.04192 11.1 LOR-12 801.59
2446751.448 310762.021 791.94352 7.32 LOR-12 801.59
2446751.448 310762.021 791.83856 13.8 LOR-12 801.59
2446751.448 310762.021 791.73032 14.86 LOR-12 801.59
2446751.448 310762.021 791.6024 11.61 LOR-12 801.59
2446751.448 310762.021 791.49744 12.9 LOR-12 801.59
2446751.448 310762.021 791.39248 15.96 LOR-12 801.59
2446751.448 310762.021 791.28752 78.5 LOR-12 801.59
2446751.448 310762.021 791.13664 438.11 LOR-12 801.59
2446751.448 310762.021 790.9956 488.6 LOR-12 801.59
2446751.448 310762.021 790.87752 274.8 LOR-12 801.59
2446751.448 310762.021 790.77256 338.92 LOR-12 801.59
2446751.448 310762.021 790.63808 464.67 LOR-12 801.59
2446751.448 310762.021 790.52656 283.63 LOR-12 801.59
2446751.448 310762.021 790.4216 172.48 LOR-12 801.59
2446751.448 310762.021 790.31992 221.29 LOR-12 801.59
2446751.448 310762.021 790.22152 125.69 LOR-12 801.59
2446947.957 310561.926 807.46 1.12 LOR-13 807.46
2446947.957 310561.926 807.35832 1.51 LOR-13 807.46
2446947.957 310561.926 807.20416 0.99 LOR-13 807.46
2446947.957 310561.926 807.05984 0.8 LOR-13 807.46
2446947.957 310561.926 806.91224 0.63 LOR-13 807.46
2446947.957 310561.926 806.76792 0.6 LOR-13 807.46
2446947.957 310561.926 806.6236 0.56 LOR-13 807.46
2446947.957 310561.926 806.46616 0.61 LOR-13 807.46
2446947.957 310561.926 806.33168 0.58 LOR-13 807.46
2446947.957 310561.926 806.19392 0.61 LOR-13 807.46
2446947.957 310561.926 806.04632 0.58 LOR-13 807.46
2446947.957 310561.926 805.90528 0.55 LOR-13 807.46
2446947.957 310561.926 805.76752 0.68 LOR-13 807.46
2446947.957 310561.926 805.61992 0.56 LOR-13 807.46
2446947.957 310561.926 805.47888 0.5 LOR-13 807.46
2446947.957 310561.926 805.33456 0.57 LOR-13 807.46
2446947.957 310561.926 805.20008 0.53 LOR-13 807.46
2446947.957 310561.926 805.03608 0.62 LOR-13 807.46
2446947.957 310561.926 804.9016 0.53 LOR-13 807.46
2446947.957 310561.926 804.76712 0.53 LOR-13 807.46
2446947.957 310561.926 804.6392 0.53 LOR-13 807.46
2446947.957 310561.926 804.4752 0.53 LOR-13 807.46
2446947.957 310561.926 804.33744 0.62 LOR-13 807.46
2446947.957 310561.926 804.22264 0.45 LOR-13 807.46
2446947.957 310561.926 804.10784 0.56 LOR-13 807.46
2446947.957 310561.926 803.98648 0.57 LOR-13 807.46
2446947.957 310561.926 803.82904 0.52 LOR-13 807.46
2446947.957 310561.926 803.67488 0.5 LOR-13 807.46
2446947.957 310561.926 803.52728 0.51 LOR-13 807.46
2446947.957 310561.926 803.37968 0.52 LOR-13 807.46
2446947.957 310561.926 803.23208 0.48 LOR-13 807.46
2446947.957 310561.926 803.05824 0.52 LOR-13 807.46
2446947.957 310561.926 802.91064 0.44 LOR-13 807.46
2446947.957 310561.926 802.7696 0.48 LOR-13 807.46
2446947.957 310561.926 802.5892 0.46 LOR-13 807.46
2446947.957 310561.926 802.458 0.49 LOR-13 807.46
2446947.957 310561.926 802.3596 0.48 LOR-13 807.46
2446947.957 310561.926 802.17264 0.43 LOR-13 807.46
2446947.957 310561.926 802.03816 0.37 LOR-13 807.46
2446947.957 310561.926 801.90696 0.49 LOR-13 807.46
2446947.957 310561.926 801.74624 0.51 LOR-13 807.46
2446947.957 310561.926 801.61176 0.47 LOR-13 807.46
2446947.957 310561.926 801.48384 0.37 LOR-13 807.46
2446947.957 310561.926 801.35592 0.48 LOR-13 807.46
2446947.957 310561.926 801.25752 0.53 LOR-13 807.46
2446947.957 310561.926 801.12304 0.49 LOR-13 807.46
2446947.957 310561.926 801.02464 0.32 LOR-13 807.46
2446947.957 310561.926 800.88032 0.41 LOR-13 807.46
2446947.957 310561.926 800.72944 0.46 LOR-13 807.46
2446947.957 310561.926 800.55232 0.5 LOR-13 807.46
2446947.957 310561.926 800.4408 0.47 LOR-13 807.46
2446947.957 310561.926 800.26368 0.38 LOR-13 807.46
2446947.957 310561.926 800.08328 0.51 LOR-13 807.46
2446947.957 310561.926 799.97504 0.41 LOR-13 807.46
2446947.957 310561.926 799.80448 0.44 LOR-13 807.46
2446947.957 310561.926 799.65032 0.46 LOR-13 807.46
2446947.957 310561.926 799.49616 0.46 LOR-13 807.46
2446947.957 310561.926 799.32232 0.4 LOR-13 807.46
2446947.957 310561.926 799.16816 0.43 LOR-13 807.46
2446947.957 310561.926 799.03368 0.48 LOR-13 807.46
2446947.957 310561.926 798.88608 0.47 LOR-13 807.46
2446947.957 310561.926 798.768 0.48 LOR-13 807.46
2446947.957 310561.926 798.6532 0.49 LOR-13 807.46
2446947.957 310561.926 798.52528 0.48 LOR-13 807.46
2446947.957 310561.926 798.38752 0.46 LOR-13 807.46
2446947.957 310561.926 798.23992 0.51 LOR-13 807.46
2446947.957 310561.926 798.11528 0.49 LOR-13 807.46
2446947.957 310561.926 797.97424 0.45 LOR-13 807.46
2446947.957 310561.926 797.82992 0.54 LOR-13 807.46
2446947.957 310561.926 797.68232 0.41 LOR-13 807.46
2446947.957 310561.926 797.58392 0.38 LOR-13 807.46
2446947.957 310561.926 797.47896 0.49 LOR-13 807.46
2446947.957 310561.926 797.374 0.41 LOR-13 807.46
2446947.957 310561.926 797.24936 0.44 LOR-13 807.46
2446947.957 310561.926 797.12144 0.37 LOR-13 807.46
2446947.957 310561.926 796.94104 0.44 LOR-13 807.46
2446947.957 310561.926 796.8 0.44 LOR-13 807.46
2446947.957 310561.926 796.68848 0.63 LOR-13 807.46
2446947.957 310561.926 796.54744 1.37 LOR-13 807.46
2446947.957 310561.926 796.43592 2.09 LOR-13 807.46
2446947.957 310561.926 796.33752 2 LOR-13 807.46
2446947.957 310561.926 796.17024 4.23 LOR-13 807.46
2446947.957 310561.926 795.9964 2.88 LOR-13 807.46
2446947.957 310561.926 795.8816 2.04 LOR-13 807.46
```

```
2446947.957 310561.926 795.7504 1.01 LOR-13 807.46
2446947.957 310561.926 795.62248 1.06 LOR-13 807.46
2446947.957 310561.926 795.47488 2.73 LOR-13 807.46
2446947.957 310561.926 795.31416 3.57 LOR-13 807.46
2446947.957 310561.926 795.1928 4.39 LOR-13 807.46
2446947.957 310561.926 795.07144 4.38 LOR-13 807.46
2446947.957 310561.926 794.9468 5.02 LOR-13 807.46
2446947.957 310561.926 794.82216 5.03 LOR-13 807.46
2446947.957 310561.926 794.7172 4.27 LOR-13 807.46
2446947.957 310561.926 794.61224 5.23 LOR-13 807.46
2446947.957 310561.926 794.49088 2.68 LOR-13 807.46
2446947.957 310561.926 794.38592 2.63 LOR-13 807.46
2446947.957 310561.926 794.28424 1.98 LOR-13 807.46
2446947.957 310561.926 794.15304 2.98 LOR-13 807.46
2446947.957 310561.926 794.04808 3.83 LOR-13 807.46
2446947.957 310561.926 793.94312 7.5 LOR-13 807.46
2446947.957 310561.926 793.83816 10.4 LOR-13 807.46
2446947.957 310561.926 793.71352 10.4 LOR-13 807.46
2446947.957 310561.926 793.61512 6.16 LOR-13 807.46
2446947.957 310561.926 793.5036 5.61 LOR-13 807.46
2446947.957 310561.926 793.4052 5.05 LOR-13 807.46
2446947.957 310561.926 793.29368 3.88 LOR-13 807.46
2446947.957 310561.926 793.192 7.44 LOR-13 807.46
2446947.957 310561.926 793.08704 5.78 LOR-13 807.46
2446947.957 310561.926 792.98208 5.27 LOR-13 807.46
2446947.957 310561.926 792.86072 12.7 LOR-13 807.46
2446947.957 310561.926 792.7328 8.79 LOR-13 807.46
2446947.957 310561.926 792.6344 13.86 LOR-13 807.46
2446947.957 310561.926 792.5196 23.25 LOR-13 807.46
2446947.957 310561.926 792.4212 18.04 LOR-13 807.46
2446947.957 310561.926 792.31952 5.16 LOR-13 807.46
2446947.957 310561.926 792.20144 9.39 LOR-13 807.46
2446947.957 310561.926 792.09976 29.27 LOR-13 807.46
2446947.957 310561.926 792.05056 23.53 LOR-13 807.46
2446761.692 310839.185 801.048 0.82 LOR-14 801.048
2446761.692 310839.185 800.91024 2.86 LOR-14 801.048
2446761.692 310839.185 800.75608 3.02 LOR-14 801.048
2446761.692 310839.185 800.638 2.51 LOR-14 801.048
2446761.692 310839.185 800.51992 2.04 LOR-14 801.048
2446761.692 310839.185 800.39528 2.01 LOR-14 801.048
2446761.692 310839.185 800.27392 2.35 LOR-14 801.048
2446761.692 310839.185 800.12632 2.49 LOR-14 801.048
2446761.692 310839.185 800.00496 1.13 LOR-14 801.048
2446761.692 310839.185 799.88688 0.87 LOR-14 801.048
2446761.692 310839.185 799.77208 0.8 LOR-14 801.048
2446761.692 310839.185 799.62776 0.81 LOR-14 801.048
2446761.692 310839.185 799.5228 0.42 LOR-14 801.048
2446761.692 310839.185 799.41784 0.42 LOR-14 801.048
2446761.692 310839.185 799.31288 0.48 LOR-14 801.048
2446761.692 310839.185 799.18168 0.43 LOR-14 801.048
2446761.692 310839.185 799.07672 0.47 LOR-14 801.048
2446761.692 310839.185 798.97176 0.47 LOR-14 801.048
2446761.692 310839.185 798.8668 0.47 LOR-14 801.048
2446761.692 310839.185 798.73888 0.43 LOR-14 801.048
2446761.692 310839.185 798.64048 0.52 LOR-14 801.048
2446761.692 310839.185 798.506 0.38 LOR-14 801.048
2446761.692 310839.185 798.36824 0.49 LOR-14 801.048
2446761.692 310839.185 798.25016 0.55 LOR-14 801.048
2446761.692 310839.185 798.10584 0.58 LOR-14 801.048
2446761.692 310839.185 797.97136 0.39 LOR-14 801.048
2446761.692 310839.185 797.87296 0.38 LOR-14 801.048
2446761.692 310839.185 797.72864 0.31 LOR-14 801.048
2446761.692 310839.185 797.63024 0.31 LOR-14 801.048
2446761.692 310839.185 797.53184 0.38 LOR-14 801.048
2446761.692 310839.185 797.43344 0.33 LOR-14 801.048
2446761.692 310839.185 797.32848 0.36 LOR-14 801.048
2446761.692 310839.185 797.23008 0.43 LOR-14 801.048
2446761.692 310839.185 797.0956 0.41 LOR-14 801.048
2446761.692 310839.185 796.97424 0.38 LOR-14 801.048
2446761.692 310839.185 796.85616 0.45 LOR-14 801.048
2446761.692 310839.185 796.73152 1.67 LOR-14 801.048
2446761.692 310839.185 796.56752 9.1 LOR-14 801.048
2446761.692 310839.185 796.43632 14.95 LOR-14 801.048
2446761.692 310839.185 796.30512 25.8 LOR-14 801.048
2446761.692 310839.185 796.20016 47 LOR-14 801.048
2446761.692 310839.185 796.08208 50.77 LOR-14 801.048
2446761.692 310839.185 795.97056 45.27 LOR-14 801.048
2446761.692 310839.185 795.85576 48.94 LOR-14 801.048
2446761.692 310839.185 795.78688 58.91 LOR-14 801.048
2446761.692 310839.185 795.67864 57.21 LOR-14 801.048
2446761.692 310839.185 795.54744 51.5 LOR-14 801.048
2446761.692 310839.185 795.43592 21.36 LOR-14 801.048
2446761.692 310839.185 795.2916 38.66 LOR-14 801.048
2446761.692 310839.185 795.144 18.72 LOR-14 801.048
2446761.692 310839.185 795.04232 11.54 LOR-14 801.048
2446761.692 310839.185 794.898 5.45 LOR-14 801.048
2446761.692 310839.185 794.7832 2.01 LOR-14 801.048
2446761.692 310839.185 794.67168 0.9 LOR-14 801.048
2446761.692 310839.185 794.54048 3.33 LOR-14 801.048
2446761.692 310839.185 794.42896 2.37 LOR-14 801.048
2446761.692 310839.185 794.26824 1.53 LOR-14 801.048
2446761.692 310839.185 794.15016 0.6 LOR-14 801.048
2446761.692 310839.185 794.03208 0.27 LOR-14 801.048
2446761.692 310839.185 793.92384 0.35 LOR-14 801.048
2446761.692 310839.185 793.7992 0.34 LOR-14 801.048
2446761.692 310839.185 793.7008 0.35 LOR-14 801.048
2446761.692 310839.185 793.56304 0.29 LOR-14 801.048
2446761.692 310839.185 793.41544 0.34 LOR-14 801.048
2446761.692 310839.185 793.30064 0.32 LOR-14 801.048
2446761.692 310839.185 793.18256 0.33 LOR-14 801.048
2446761.692 310839.185 793.08416 0.33 LOR-14 801.048
2446761.692 310839.185 792.93984 0.31 LOR-14 801.048
```

```
2446761.692 310839.185 792.80864 0.36 LOR-14 801.048
2446761.692 310839.185 792.67744 0.4 LOR-14 801.048
2446761.692 310839.185 792.52656 0.27 LOR-14 801.048
2446761.692 310839.185 792.40848 0.29 LOR-14 801.048
2446761.692 310839.185 792.2904 0.52 LOR-14 801.048
2446761.692 310839.185 792.17232 0.49 LOR-14 801.048
2446761.692 310839.185 792.05096 0.61 LOR-14 801.048
2446761.692 310839.185 791.99192 0.9 LOR-14 801.048
2446683.141 310870.26 800.752 6.12 LOR-15 800.752
2446683.141 310870.26 800.58144 5.43 LOR-15 800.752
2446683.141 310870.26 800.424 5.77 LOR-15 800.752
2446683.141 310870.26 800.32232 8.94 LOR-15 800.752
2446683.141 310870.26 800.1944 11.6 LOR-15 800.752
2446683.141 310870.26 800.07304 10.79 LOR-15 800.752
2446683.141 310870.26 799.95824 10.26 LOR-15 800.752
2446683.141 310870.26 799.82704 4.99 LOR-15 800.752
2446683.141 310870.26 799.72536 8.57 LOR-15 800.752
2446683.141 310870.26 799.61384 6.07 LOR-15 800.752
2446683.141 310870.26 799.49576 -0.04 LOR-15 800.752
2446683.141 310870.26 799.36456 1.33 LOR-15 800.752
2446683.141 310870.26 799.2268 -0.09 LOR-15 800.752
2446683.141 310870.26 799.05952 0.47 LOR-15 800.752
2446683.141 310870.26 798.92176 -1.43 LOR-15 800.752
2446683.141 310870.26 798.784 -1.91 LOR-15 800.752
2446683.141 310870.26 798.64624 -1.69 LOR-15 800.752
2446683.141 310870.26 798.47896 -2.13 LOR-15 800.752
2446683.141 310870.26 798.34448 -1.82 LOR-15 800.752
2446683.141 310870.26 798.21656 -1.99 LOR-15 800.752
2446683.141 310870.26 798.08864 -2.35 LOR-15 800.752
2446683.141 310870.26 797.96728 -1.94 LOR-15 800.752
2446683.141 310870.26 797.86232 -1.76 LOR-15 800.752
2446683.141 310870.26 797.76392 -2.21 LOR-15 800.752
2446683.141 310870.26 797.66552 -2.1 LOR-15 800.752
2446683.141 310870.26 797.54744 -2.18 LOR-15 800.752
2446683.141 310870.26 797.40968 -2.12 LOR-15 800.752
2446683.141 310870.26 797.26208 -2.11 LOR-15 800.752
2446683.141 310870.26 797.15384 -2.08 LOR-15 800.752
2446683.141 310870.26 797.03904 -1.89 LOR-15 800.752
2446683.141 310870.26 796.898 -1.93 LOR-15 800.752
2446683.141 310870.26 796.7832 -2.02 LOR-15 800.752
2446683.141 310870.26 796.6684 -2.07 LOR-15 800.752
2446683.141 310870.26 796.5536 -1.65 LOR-15 800.752
2446683.141 310870.26 796.4552 -1.99 LOR-15 800.752
2446683.141 310870.26 796.32072 -1.96 LOR-15 800.752
2446683.141 310870.26 796.22232 -1.78 LOR-15 800.752
2446683.141 310870.26 796.08784 -2.18 LOR-15 800.752
2446683.141 310870.26 795.96976 -2.17 LOR-15 800.752
2446683.141 310870.26 795.86808 -1.9 LOR-15 800.752
2446683.141 310870.26 795.76312 -2 LOR-15 800.752
2446683.141 310870.26 795.63192 -2.08 LOR-15 800.752
2446683.141 310870.26 795.53352 -1.93 LOR-15 800.752
2446683.141 310870.26 795.40888 -2.03 LOR-15 800.752
2446683.141 310870.26 795.3072 -1.78 LOR-15 800.752
2446683.141 310870.26 795.20224 -1.91 LOR-15 800.752
2446683.141 310870.26 795.10056 -1.98 LOR-15 800.752
2446683.141 310870.26 794.9956 -1.95 LOR-15 800.752
2446683.141 310870.26 794.83488 -1.71 LOR-15 800.752
2446683.141 310870.26 794.66104 -1.93 LOR-15 800.752
2446683.141 310870.26 794.52 -1.98 LOR-15 800.752
2446683.141 310870.26 794.36584 -2.05 LOR-15 800.752
2446683.141 310870.26 794.2576 -1.99 LOR-15 800.752
2446683.141 310870.26 794.13296 -1.67 LOR-15 800.752
2446683.141 310870.26 794.00832 -2.05 LOR-15 800.752
2446683.141 310870.26 793.8476 -1.89 LOR-15 800.752
2446683.141 310870.26 793.68032 -2.05 LOR-15 800.752
2446683.141 310870.26 793.50976 -1.95 LOR-15 800.752
2446683.141 310870.26 793.3392 -2.19 LOR-15 800.752
2446683.141 310870.26 793.2408 -2.09 LOR-15 800.752
2446683.141 310870.26 793.07352 -2.11 LOR-15 800.752
2446683.141 310870.26 792.91608 -1.96 LOR-15 800.752
2446683.141 310870.26 792.81768 -2.04 LOR-15 800.752
2446683.141 310870.26 792.69304 -1.9 LOR-15 800.752
2446683.141 310870.26 792.57496 -1.89 LOR-15 800.752
2446683.141 310870.26 792.46344 -1.95 LOR-15 800.752
2446683.141 310870.26 792.34864 -1.66 LOR-15 800.752
2446683.141 310870.26 792.23056 -1.84 LOR-15 800.752
2446683.141 310870.26 792.09608 -2.06 LOR-15 800.752
2446683.141 310870.26 791.98456 -1.79 LOR-15 800.752
2446683.141 310870.26 791.87304 -2.22 LOR-15 800.752
2446683.141 310870.26 791.75824 -2.04 LOR-15 800.752
2446683.141 310870.26 791.62376 -1.78 LOR-15 800.752
2446683.141 310870.26 791.51224 -1.71 LOR-15 800.752
2446683.141 310870.26 791.3876 -1.81 LOR-15 800.752
2446683.141 310870.26 791.26296 -1.77 LOR-15 800.752
2446683.141 310870.26 791.13832 -1.78 LOR-15 800.752
2446683.141 310870.26 791.0104 -1.7 LOR-15 800.752
2446683.141 310870.26 791.00384 -1.86 LOR-15 800.752
2446612.674 310885.096 795.055 0.25 LOR-16 795.055
2446612.674 310885.096 794.95332 0.06 LOR-16 795.055
2446612.674 310885.096 794.83196 -0.89 LOR-16 795.055
2446612.674 310885.096 794.72372 -0.82 LOR-16 795.055
2446612.674 310885.096 794.62532 -0.92 LOR-16 795.055
2446612.674 310885.096 794.52364 -0.94 LOR-16 795.055
2446612.674 310885.096 794.42196 -0.86 LOR-16 795.055
2446612.674 310885.096 794.32356 -1.01 LOR-16 795.055
2446612.674 310885.096 794.2186 -1.05 LOR-16 795.055
2446612.674 310885.096 794.11364 -0.98 LOR-16 795.055
2446612.674 310885.096 794.00868 -1.01 LOR-16 795.055
2446612.674 310885.096 793.88076 -1.01 LOR-16 795.055
2446612.674 310885.096 793.77252 -1.02 LOR-16 795.055
2446612.674 310885.096 793.66428 -1.08 LOR-16 795.055
2446612.674 310885.096 793.55932 -0.98 LOR-16 795.055
```

```
2446612.674 310885.096 793.45436 -1.1 LOR-16 795.055
2446612.674 310885.096 793.32644 -1.15 LOR-16 795.055
2446612.674 310885.096 793.2182 -1.1 LOR-16 795.055
2446612.674 310885.096 793.11652 -1.15 LOR-16 795.055
2446612.674 310885.096 792.9886 -1 LOR-16 795.055
2446612.674 310885.096 792.85084 -0.99 LOR-16 795.055
2446612.674 310885.096 792.71308 -0.92 LOR-16 795.055
2446612.674 310885.096 792.58844 -1.35 LOR-16 795.055
2446612.674 310885.096 792.44412 -1.1 LOR-16 795.055
2446612.674 310885.096 792.30308 -1.12 LOR-16 795.055
2446612.674 310885.096 792.18172 -1.23 LOR-16 795.055
2446612.674 310885.096 792.06364 -1.13 LOR-16 795.055
2446612.674 310885.096 791.96524 -1.05 LOR-16 795.055
2446612.674 310885.096 791.86028 -1.2 LOR-16 795.055
2446612.674 310885.096 791.85372 -1.2 LOR-16 795.055
2446568.145 310857.159 793.64776 0.22 LOR-17 793.92
2446568.145 310857.159 793.51656 0.56 LOR-17 793.92
2446568.145 310857.159 793.33616 1.34 LOR-17 793.92
2446568.145 310857.159 793.182 1.66 LOR-17 793.92
2446568.145 310857.159 793.06392 1.52 LOR-17 793.92
2446568.145 310857.159 792.93928 2.09 LOR-17 793.92
2446568.145 310857.159 792.78512 1.76 LOR-17 793.92
2446568.145 310857.159 792.6408 1.18 LOR-17 793.92
2446568.145 310857.159 792.51616 0.82 LOR-17 793.92
2446568.145 310857.159 792.38168 1.53 LOR-17 793.92
2446568.145 310857.159 792.25376 1.21 LOR-17 793.92
2446568.145 310857.159 792.08976 -0.1 LOR-17 793.92
2446568.145 310857.159 791.94872 -1.03 LOR-17 793.92
2446568.145 310857.159 791.81096 -1.7 LOR-17 793.92
2446568.145 310857.159 791.69944 -1.73 LOR-17 793.92
2446568.145 310857.159 791.59776 -1.89 LOR-17 793.92
2446568.145 310857.159 791.5748 -2.18 LOR-17 793.92
2446565.676 310779.459 792.882 -0.2 LOR-18 792.882
2446565.676 310779.459 792.75408 0.74 LOR-18 792.882
2446565.676 310779.459 792.60976 1.3 LOR-18 792.882
2446565.676 310779.459 792.4556 -0.62 LOR-18 792.882
2446565.676 310779.459 792.33096 -0.83 LOR-18 792.882
2446565.676 310779.459 792.18664 -0.67 LOR-18 792.882
2446565.676 310779.459 792.0456 -0.7 LOR-18 792.882
2446565.676 310779.459 791.90128 0.34 LOR-18 792.882
2446565.676 310779.459 791.734 1.71 LOR-18 792.882
2446565.676 310779.459 791.6192 0.61 LOR-18 792.882
2446565.676 310779.459 791.488 2.75 LOR-18 792.882
2446565.676 310779.459 791.3404 5.51 LOR-18 792.882
2446565.676 310779.459 791.19608 4.07 LOR-18 792.882
2446565.676 310779.459 791.01568 2.06 LOR-18 792.882
2446565.676 310779.459 790.87136 2.02 LOR-18 792.882
2446565.676 310779.459 790.7336 1.88 LOR-18 792.882
2446565.676 310779.459 790.57944 1.28 LOR-18 792.882
2446565.676 310779.459 790.43184 8.54 LOR-18 792.882
2446565.676 310779.459 790.26784 22.75 LOR-18 792.882
2446565.676 310779.459 790.13336 82.67 LOR-18 792.882
2446565.676 310779.459 789.99888 83.45 LOR-18 792.882
2446565.676 310779.459 789.8808 93.8 LOR-18 792.882
2446565.676 310779.459 789.71024 58.79 LOR-18 792.882
2446565.676 310779.459 789.55936 81.64 LOR-18 792.882
2446565.676 310779.459 789.41176 67.71 LOR-18 792.882
2446565.676 310779.459 789.2576 51.02 LOR-18 792.882
2446565.676 310779.459 789.09688 48.64 LOR-18 792.882
2446565.676 310779.459 788.9132 107.34 LOR-18 792.882
2446565.676 310779.459 788.75904 112.87 LOR-18 792.882
2446565.676 310779.459 788.6344 46.13 LOR-18 792.882
2446565.676 310779.459 788.49008 44.43 LOR-18 792.882
2446565.676 310779.459 788.31296 120.87 LOR-18 792.882
2446565.676 310779.459 788.16864 134.2 LOR-18 792.882
2446565.676 310779.459 788.02104 147.29 LOR-18 792.882
2446565.676 310779.459 787.86032 165.73 LOR-18 792.882
2446565.676 310779.459 787.74552 157.94 LOR-18 792.882
2446565.676 310779.459 787.62416 139.95 LOR-18 792.882
2446565.676 310779.459 787.5192 169.6 LOR-18 792.882
2446565.676 310779.459 787.35848 26.76 LOR-18 792.882
2446565.676 310779.459 787.22728 31.24 LOR-18 792.882
2446565.676 310779.459 787.08952 25.13 LOR-18 792.882
2446565.676 310779.459 786.94848 19.45 LOR-18 792.882
2446565.676 310779.459 786.77136 31.48 LOR-18 792.882
2446565.676 310779.459 786.6336 31.06 LOR-18 792.882
2446565.676 310779.459 786.53192 47.23 LOR-18 792.882
2446565.676 310779.459 786.34168 118.19 LOR-18 792.882
2446565.676 310779.459 786.18096 115.55 LOR-18 792.882
2446565.676 310779.459 786.02024 106.82 LOR-18 792.882
2446565.676 310779.459 785.85952 115.58 LOR-18 792.882
2446565.676 310779.459 785.75784 123.98 LOR-18 792.882
2446565.676 310779.459 785.6004 121.43 LOR-18 792.882
2446565.676 310779.459 785.44296 122.19 LOR-18 792.882
2446565.676 310779.459 785.34456 125.79 LOR-18 792.882
2446565.676 310779.459 785.24616 124.78 LOR-18 792.882
2446565.676 310779.459 785.1084 127.51 LOR-18 792.882
2446565.676 310779.459 784.98376 130.48 LOR-18 792.882
2446565.676 310779.459 784.83944 130.53 LOR-18 792.882
2446565.676 310779.459 784.69512 126.46 LOR-18 792.882
2446565.676 310779.459 784.55408 124.25 LOR-18 792.882
2446565.676 310779.459 784.38024 123.45 LOR-18 792.882
2446565.676 310779.459 784.23592 128.49 LOR-18 792.882
2446565.676 310779.459 784.09488 128.96 LOR-18 792.882
2446565.676 310779.459 783.95056 128.99 LOR-18 792.882
2446565.676 310779.459 783.80624 132.61 LOR-18 792.882
2446565.676 310779.459 783.66192 133.8 LOR-18 792.882
2446565.676 310779.459 783.534 130.52 LOR-18 792.882
2446565.676 310779.459 783.37656 123.91 LOR-18 792.882
2446565.676 310779.459 783.2388 129.64 LOR-18 792.882
2446565.676 310779.459 783.09776 129.45 LOR-18 792.882
2446565.676 310779.459 782.92064 21.23 LOR-18 792.882
```

```
2446565.676 310779.459 782.77632 8.86 LOR-18 792.882
2446565.676 310779.459 782.632 8.1 LOR-18 792.882
2446565.676 310779.459 782.4516 7.12 LOR-18 792.882
2446565.676 310779.459 782.2876 3.27 LOR-18 792.882
2446565.676 310779.459 782.14656 0.41 LOR-18 792.882
2446565.676 310779.459 782.00224 0.22 LOR-18 792.882
2446565.676 310779.459 781.85136 0.68 LOR-18 792.882
2446565.676 310779.459 781.66112 0.4 LOR-18 792.882
2446565.676 310779.459 781.49712 1.2 LOR-18 792.882
2446565.676 310779.459 781.3364 0.57 LOR-18 792.882
2446565.676 310779.459 781.16256 -0.32 LOR-18 792.882
2446565.676 310779.459 781.05104 -0.63 LOR-18 792.882
2446565.676 310779.459 780.91984 -1.01 LOR-18 792.882
2446565.676 310779.459 780.77552 -1.15 LOR-18 792.882
2446565.676 310779.459 780.66072 -1.17 LOR-18 792.882
2446565.676 310779.459 780.53936 -1.05 LOR-18 792.882
2446565.676 310779.459 780.39832 -0.99 LOR-18 792.882
2446565.676 310779.459 780.24416 -1.26 LOR-18 792.882
2446565.676 310779.459 780.08672 -1.09 LOR-18 792.882
2446565.676 310779.459 779.98832 -1.04 LOR-18 792.882
2446565.676 310779.459 779.88992 -1.18 LOR-18 792.882
2446565.676 310779.459 779.78824 -1.14 LOR-18 792.882
2446565.676 310779.459 779.68 -1.09 LOR-18 792.882
2446565.676 310779.459 779.5652 -1.37 LOR-18 792.882
2446565.676 310779.459 779.46352 -1.1 LOR-18 792.882
2446565.676 310779.459 779.33888 -1.26 LOR-18 792.882
2446565.676 310779.459 779.19456 -1.46 LOR-18 792.882
2446565.676 310779.459 779.07648 -1.3 LOR-18 792.882
2446565.676 310779.459 778.9584 -1.42 LOR-18 792.882
2446565.676 310779.459 778.81408 -1.49 LOR-18 792.882
2446565.676 310779.459 778.68288 -1.49 LOR-18 792.882
2446565.676 310779.459 778.57464 -1.09 LOR-18 792.882
2446565.676 310779.459 778.45 -1.23 LOR-18 792.882
2446565.676 310779.459 778.32864 -1.16 LOR-18 792.882
2446565.676 310779.459 778.18432 -1.16 LOR-18 792.882
2446565.676 310779.459 778.0728 -1 LOR-18 792.882
2446565.676 310779.459 777.958 -1.18 LOR-18 792.882
2446565.676 310779.459 777.83992 -1.15 LOR-18 792.882
2446565.676 310779.459 777.72512 -1.23 LOR-18 792.882
2446565.676 310779.459 777.58736 -1.04 LOR-18 792.882
2446565.676 310779.459 777.47912 -1.03 LOR-18 792.882
2446565.676 310779.459 777.37088 -0.96 LOR-18 792.882
2446565.676 310779.459 777.23312 -1.08 LOR-18 792.882
2446565.676 310779.459 777.09208 -1.24 LOR-18 792.882
2446565.676 310779.459 776.97728 -1.43 LOR-18 792.882
2446565.676 310779.459 776.88544 -1.39 LOR-18 792.882
2446587.046 310682.277 798.24 -0.05 LOR-19 798.24
2446587.046 310682.277 798.11536 2.1 LOR-19 798.24
2446587.046 310682.277 798.00056 6.61 LOR-19 798.24
2446587.046 310682.277 797.89888 13.06 LOR-19 798.24
2446587.046 310682.277 797.76768 4.9 LOR-19 798.24
2446587.046 310682.277 797.63976 0.31 LOR-19 798.24
2446587.046 310682.277 797.52824 -0.22 LOR-19 798.24
2446587.046 310682.277 797.41672 -0.77 LOR-19 798.24
2446587.046 310682.277 797.31176 -1.16 LOR-19 798.24
2446587.046 310682.277 797.21336 -1.21 LOR-19 798.24
2446587.046 310682.277 797.10184 -1.38 LOR-19 798.24
2446587.046 310682.277 796.96408 -1.56 LOR-19 798.24
2446587.046 310682.277 796.84272 -1.21 LOR-19 798.24
2446587.046 310682.277 796.73776 -1.39 LOR-19 798.24
2446587.046 310682.277 796.62952 -1.14 LOR-19 798.24
2446587.046 310682.277 796.518 -1.12 LOR-19 798.24
2446587.046 310682.277 796.4032 -1.4 LOR-19 798.24
2446587.046 310682.277 796.30152 -1.9 LOR-19 798.24
2446587.046 310682.277 796.20312 -1.75 LOR-19 798.24
2446587.046 310682.277 796.0588 -1.76 LOR-19 798.24
2446587.046 310682.277 795.93744 -1.65 LOR-19 798.24
2446587.046 310682.277 795.81608 -1.56 LOR-19 798.24
2446587.046 310682.277 795.67176 -1.72 LOR-19 798.24
2446587.046 310682.277 795.56352 -1.71 LOR-19 798.24
2446587.046 310682.277 795.452 -1.78 LOR-19 798.24
2446587.046 310682.277 795.3208 -1.68 LOR-19 798.24
2446587.046 310682.277 795.20928 -1.64 LOR-19 798.24
2446587.046 310682.277 795.07152 -1.44 LOR-19 798.24
2446587.046 310682.277 794.96 -1.66 LOR-19 798.24
2446587.046 310682.277 794.82552 -1.62 LOR-19 798.24
2446587.046 310682.277 794.72712 -1.74 LOR-19 798.24
2446587.046 310682.277 794.61888 -1.63 LOR-19 798.24
2446587.046 310682.277 794.5172 -1.55 LOR-19 798.24
2446587.046 310682.277 794.39912 -1.65 LOR-19 798.24
2446587.046 310682.277 794.25808 -1.76 LOR-19 798.24
2446587.046 310682.277 794.13016 -1.86 LOR-19 798.24
2446587.046 310682.277 794.00552 -1.69 LOR-19 798.24
2446587.046 310682.277 793.8776 -1.79 LOR-19 798.24
2446587.046 310682.277 793.73 -1.87 LOR-19 798.24
2446587.046 310682.277 793.59552 -1.43 LOR-19 798.24
2446587.046 310682.277 793.46432 -1.73 LOR-19 798.24
2446587.046 310682.277 793.33312 -1.79 LOR-19 798.24
2446587.046 310682.277 793.21176 -1.82 LOR-19 798.24
2446587.046 310682.277 793.11336 -1.68 LOR-19 798.24
2446587.046 310682.277 792.97888 -1.66 LOR-19 798.24
2446587.046 310682.277 792.8608 -1.41 LOR-19 798.24
2446587.046 310682.277 792.7624 0.91 LOR-19 798.24
2446587.046 310682.277 792.60496 26.68 LOR-19 798.24
2446587.046 310682.277 792.47048 56.47 LOR-19 798.24
2446587.046 310682.277 792.3196 88.95 LOR-19 798.24
2446587.046 310682.277 792.17856 57.68 LOR-19 798.24
2446587.046 310682.277 792.06704 35.71 LOR-19 798.24
2446587.046 310682.277 791.96208 42.15 LOR-19 798.24
2446587.046 310682.277 791.85384 50.79 LOR-19 798.24
2446587.046 310682.277 791.77512 58.18 LOR-19 798.24
2446568.5 310613.769 787.911 -0.02 LOR-20 787.911
```

```
2446568.5 310613.769 787.7962 0.79 LOR-20 787.911
2446568.5 310613.769 787.67484 -0.17 LOR-20 787.911
2446568.5 310613.769 787.54692 -0.5 LOR-20 787.911
2446568.5 310613.769 787.44196 -0.84 LOR-20 787.911
2446568.5 310613.769 787.29436 -0.58 LOR-20 787.911
2446568.5 310613.769 787.19268 -1.16 LOR-20 787.911
2446568.5 310613.769 787.091 -0.87 LOR-20 787.911
2446568.5 310613.769 786.98932 -1.04 LOR-20 787.911
2446568.5 310613.769 786.8778 -0.79 LOR-20 787.911
2446568.5 310613.769 786.77612 -0.78 LOR-20 787.911
2446568.5 310613.769 786.64492 -0.86 LOR-20 787.911
2446568.5 310613.769 786.5334 -0.93 LOR-20 787.911
2446568.5 310613.769 786.43172 -0.79 LOR-20 787.911
2446568.5 310613.769 786.30708 -0.97 LOR-20 787.911
2446568.5 310613.769 786.16604 -0.68 LOR-20 787.911
2446568.5 310613.769 786.04468 -0.8 LOR-20 787.911
2446568.5 310613.769 785.92332 -0.89 LOR-20 787.911
2446568.5 310613.769 785.7954 -1.03 LOR-20 787.911
2446568.5 310613.769 785.6806 -0.87 LOR-20 787.911
2446568.5 310613.769 785.57892 -1.29 LOR-20 787.911
2446568.5 310613.769 785.46412 -0.98 LOR-20 787.911
2446568.5 310613.769 785.3526 -0.91 LOR-20 787.911
2446568.5 310613.769 785.19844 -0.8 LOR-20 787.911
2446568.5 310613.769 785.0738 -0.78 LOR-20 787.911
2446568.5 310613.769 784.9262 -1.05 LOR-20 787.911
2446568.5 310613.769 784.78188 -0.85 LOR-20 787.911
2446568.5 310613.769 784.6638 -1.28 LOR-20 787.911
2446568.5 310613.769 784.54572 -0.76 LOR-20 787.911
2446568.5 310613.769 784.43092 -0.47 LOR-20 787.911
2446568.5 310613.769 784.32924 -0.59 LOR-20 787.911
2446568.5 310613.769 784.22756 -0.79 LOR-20 787.911
2446568.5 310613.769 784.1226 -0.61 LOR-20 787.911
2446568.5 310613.769 784.01436 -0.59 LOR-20 787.911
2446568.5 310613.769 783.9094 -0.65 LOR-20 787.911
2446568.5 310613.769 783.80116 -1.16 LOR-20 787.911
2446568.5 310613.769 783.69292 -0.87 LOR-20 787.911
2446568.5 310613.769 783.54204 -0.72 LOR-20 787.911
2446568.5 310613.769 783.39444 -1.42 LOR-20 787.911
2446568.5 310613.769 783.26652 -1.23 LOR-20 787.911
2446568.5 310613.769 783.16156 -0.79 LOR-20 787.911
2446568.5 310613.769 783.0402 -0.69 LOR-20 787.911
2446568.5 310613.769 782.88932 -0.26 LOR-20 787.911
2446568.5 310613.769 782.78436 -1.77 LOR-20 787.911
2446568.5 310613.769 782.6958 -2.11 LOR-20 787.911
2446575.823 310531.904 788.199 0.46 LOR-21 788.199
2446575.823 310531.904 788.04156 -1.09 LOR-21 788.199
2446575.823 310531.904 787.91036 -0.48 LOR-21 788.199
2446575.823 310531.904 787.75948 -1.55 LOR-21 788.199
2446575.823 310531.904 787.56924 -0.49 LOR-21 788.199
2446575.823 310531.904 787.38228 -0.82 LOR-21 788.199
2446575.823 310531.904 787.20188 -0.25 LOR-21 788.199
2446575.823 310531.904 787.09692 -0.25 LOR-21 788.199
2446575.823 310531.904 786.91652 -1.35 LOR-21 788.199
2446575.823 310531.904 786.7886 -0.46 LOR-21 788.199
2446575.823 310531.904 786.66068 -0.57 LOR-21 788.199
2446575.823 310531.904 786.50652 -1.52 LOR-21 788.199
2446575.823 310531.904 786.37204 -0.63 LOR-21 788.199
2446575.823 310531.904 786.231 -1.48 LOR-21 788.199
2446575.823 310531.904 786.07028 -0.73 LOR-21 788.199
2446575.823 310531.904 785.87676 -0.76 LOR-21 788.199
2446575.823 310531.904 785.70948 -0.67 LOR-21 788.199
2446575.823 310531.904 785.5422 0.51 LOR-21 788.199
2446575.823 310531.904 785.41428 -1.14 LOR-21 788.199
2446575.823 310531.904 785.27652 -0.11 LOR-21 788.199
2446575.823 310531.904 785.13876 14.93 LOR-21 788.199
2446575.823 310531.904 785.01084 16.73 LOR-21 788.199
2446575.823 310531.904 784.85996 27.53 LOR-21 788.199
2446575.823 310531.904 784.72548 33.17 LOR-21 788.199
2446575.823 310531.904 784.62708 43.27 LOR-21 788.199
2446575.823 310531.904 784.5254 52.86 LOR-21 788.199
2446575.823 310531.904 784.32532 167.51 LOR-21 788.199
2446575.823 310531.904 784.19084 147.89 LOR-21 788.199
2446575.823 310531.904 784.05308 84.73 LOR-21 788.199
2446575.823 310531.904 783.91204 81.59 LOR-21 788.199
2446575.823 310531.904 783.78084 62.42 LOR-21 788.199
2446575.823 310531.904 783.6398 47.03 LOR-21 788.199
2446575.823 310531.904 783.50532 31.08 LOR-21 788.199
2446575.823 310531.904 783.40692 41.11 LOR-21 788.199
2446575.823 310531.904 783.29868 52.04 LOR-21 788.199
2446575.823 310531.904 783.18716 32.73 LOR-21 788.199
2446575.823 310531.904 783.09532 311.11 LOR-21 788.199
2446575.823 310531.904 782.97396 23.37 LOR-21 788.199
2446575.823 310531.904 782.86572 30.44 LOR-21 788.199
2446575.823 310531.904 782.76404 20.06 LOR-21 788.199
2446575.823 310531.904 782.5902 17.52 LOR-21 788.199
2446575.823 310531.904 782.45244 12.56 LOR-21 788.199
2446575.823 310531.904 782.31796 10.39 LOR-21 788.199
2446575.823 310531.904 782.13428 14.85 LOR-21 788.199
2446575.823 310531.904 781.93748 24.98 LOR-21 788.199
2446575.823 310531.904 781.78332 14.53 LOR-21 788.199
2446575.823 310531.904 781.64556 6.69 LOR-21 788.199
2446575.823 310531.904 781.51108 3.97 LOR-21 788.199
2446575.823 310531.904 781.40612 6.69 LOR-21 788.199
2446575.823 310531.904 781.25524 5.7 LOR-21 788.199
2446575.823 310531.904 781.07156 4.01 LOR-21 788.199
2446575.823 310531.904 780.901 4.06 LOR-21 788.199
2446575.823 310531.904 780.78948 8.09 LOR-21 788.199
2446575.823 310531.904 780.69108 5.9 LOR-21 788.199
2446575.823 310531.904 780.62548 4.58 LOR-21 788.199
2446574.368 310447.911 786.444 -0.06 LOR-22 786.444
2446574.368 310447.911 786.34232 -0.12 LOR-22 786.444
2446574.368 310447.911 786.24064 1.55 LOR-22 786.444
```

```
2446574.368 310447.911 786.14224 -1.11 LOR-22 786.444
2446574.368 310447.911 786.0176 -0.18 LOR-22 786.444
2446574.368 310447.911 785.91592 -0.88 LOR-22 786.444
2446574.368 310447.911 785.788 -0.84 LOR-22 786.444
2446574.368 310447.911 785.68632 -1.28 LOR-22 786.444
2446574.368 310447.911 785.5748 -1.16 LOR-22 786.444
2446574.368 310447.911 785.42392 -0.6 LOR-22 786.444
2446574.368 310447.911 785.28616 -1.31 LOR-22 786.444
2446574.368 310447.911 785.17136 -1.35 LOR-22 786.444
2446574.368 310447.911 785.07296 -0.8 LOR-22 786.444
2446574.368 310447.911 784.96144 -1.54 LOR-22 786.444
2446574.368 310447.911 784.83024 -0.79 LOR-22 786.444
2446574.368 310447.911 784.70888 -1.07 LOR-22 786.444
2446574.368 310447.911 784.6072 -0.79 LOR-22 786.444
2446574.368 310447.911 784.48912 -0.18 LOR-22 786.444
2446574.368 310447.911 784.37104 -0.29 LOR-22 786.444
2446574.368 310447.911 784.24312 -0.17 LOR-22 786.444
2446574.368 310447.911 784.14144 -0.15 LOR-22 786.444
2446574.368 310447.911 784.02336 -0.43 LOR-22 786.444
2446574.368 310447.911 783.92168 -0.74 LOR-22 786.444
2446574.368 310447.911 783.80032 0.09 LOR-22 786.444
2446574.368 310447.911 783.70192 -0.14 LOR-22 786.444
2446574.368 310447.911 783.57728 11.25 LOR-22 786.444
2446574.368 310447.911 783.39032 23.33 LOR-22 786.444
2446574.368 310447.911 783.28864 12.39 LOR-22 786.444
2446574.368 310447.911 783.17056 9.01 LOR-22 786.444
2446574.368 310447.911 783.01968 11.55 LOR-22 786.444
2446574.368 310447.911 782.89832 29.63 LOR-22 786.444
2446574.368 310447.911 782.7868 25.1 LOR-22 786.444
2446574.368 310447.911 782.66216 16.45 LOR-22 786.444
2446574.368 310447.911 782.5572 6.54 LOR-22 786.444
2446574.368 310447.911 782.43256 10.97 LOR-22 786.444
2446574.368 310447.911 782.29808 10.65 LOR-22 786.444
2446574.368 310447.911 782.1636 10.52 LOR-22 786.444
2446574.368 310447.911 782.04224 13.46 LOR-22 786.444
2446574.368 310447.911 781.92088 8.32 LOR-22 786.444
2446574.368 310447.911 781.76344 4.73 LOR-22 786.444
2446574.368 310447.911 781.6552 7.15 LOR-22 786.444
2446574.368 310447.911 781.5568 8.28 LOR-22 786.444
2446574.368 310447.911 781.42232 11.16 LOR-22 786.444
2446574.368 310447.911 781.28784 8.27 LOR-22 786.444
2446574.368 310447.911 781.18616 7.7 LOR-22 786.444
2446574.368 310447.911 781.08448 7.95 LOR-22 786.444
2446574.368 310447.911 780.96312 5.14 LOR-22 786.444
2446574.368 310447.911 780.83192 7.6 LOR-22 786.444
2446574.368 310447.911 780.72696 5.65 LOR-22 786.444
2446574.368 310447.911 780.61216 2.92 LOR-22 786.444
2446574.368 310447.911 780.48424 2.07 LOR-22 786.444
2446574.368 310447.911 780.4416 -0.65 LOR-22 786.444
2446582.622 310345.217 785.01 -0.08 LOR-24 785.01
2446582.622 310345.217 784.90504 -0.44 LOR-24 785.01
2446582.622 310345.217 784.80008 -0.22 LOR-24 785.01
2446582.622 310345.217 784.6984 -0.63 LOR-24 785.01
2446582.622 310345.217 784.56064 -0.42 LOR-24 785.01
2446582.622 310345.217 784.44256 -0.46 LOR-24 785.01
2446582.622 310345.217 784.29496 -0.43 LOR-24 785.01
2446582.622 310345.217 784.19 -0.54 LOR-24 785.01
2446582.622 310345.217 784.05552 -0.31 LOR-24 785.01
2446582.622 310345.217 783.91776 -0.6 LOR-24 785.01
2446582.622 310345.217 783.80952 -0.55 LOR-24 785.01
2446582.622 310345.217 783.698 -0.33 LOR-24 785.01
2446582.622 310345.217 783.59304 -0.09 LOR-24 785.01
2446582.622 310345.217 783.49464 0.16 LOR-24 785.01
2446643.512 310327.549 788.111 0.53 LOR-25 788.111
2446643.512 310327.549 788.111 0.53 LOR-25 788.111
2446646.415 310337.741 787.929 -1.04 LOR-25A 787.929
2446646.415 310337.741 787.8306 -2.99 LOR-25A 787.929
2446646.415 310337.741 787.72236 -3.37 LOR-25A 787.929
2446646.415 310337.741 787.61412 -2.91 LOR-25A 787.929
2446646.415 310337.741 787.50588 -2.7 LOR-25A 787.929
2446646.415 310337.741 787.4042 -3.04 LOR-25A 787.929
2446646.415 310337.741 787.2402 -3.13 LOR-25A 787.929
2446646.415 310337.741 787.0926 -3.05 LOR-25A 787.929
2446646.415 310337.741 786.95156 -3.1 LOR-25A 787.929
2446646.415 310337.741 786.78428 -2.72 LOR-25A 787.929
2446646.415 310337.741 786.64324 -3.29 LOR-25A 787.929
2446646.415 310337.741 786.50548 -3.7 LOR-25A 787.929
2446646.415 310337.741 786.35788 -3.21 LOR-25A 787.929
2446646.415 310337.741 786.2562 -3.15 LOR-25A 787.929
2446646.415 310337.741 786.08564 -3.06 LOR-25A 787.929
2446646.415 310337.741 785.92492 -3.19 LOR-25A 787.929
2446646.415 310337.741 785.73796 -2.85 LOR-25A 787.929
2446646.415 310337.741 785.55756 -3.26 LOR-25A 787.929
2446646.415 310337.741 785.3706 -2.87 LOR-25A 787.929
2446646.415 310337.741 785.19676 -2.84 LOR-25A 787.929
2446646.415 310337.741 785.0754 -3.04 LOR-25A 787.929
2446646.415 310337.741 784.9606 -2.75 LOR-25A 787.929
2446646.415 310337.741 784.80644 -2.06 LOR-25A 787.929
2446646.415 310337.741 784.63588 2.46 LOR-25A 787.929
2446646.415 310337.741 784.5014 24.88 LOR-25A 787.929
2446646.415 310337.741 784.37348 19.36 LOR-25A 787.929
2446646.415 310337.741 784.24884 49.08 LOR-25A 787.929
2446646.415 310337.741 784.09796 76.76 LOR-25A 787.929
2446646.415 310337.741 783.97004 40.2 LOR-25A 787.929
2446646.415 310337.741 783.8454 49.62 LOR-25A 787.929
2446646.415 310337.741 783.74044 55.83 LOR-25A 787.929
2446646.415 310337.741 783.59612 44.97 LOR-25A 787.929
2446646.415 310337.741 783.49772 49.66 LOR-25A 787.929
2446646.415 310337.741 783.34028 37.05 LOR-25A 787.929
2446646.415 310337.741 783.17956 25.31 LOR-25A 787.929
2446646.415 310337.741 782.98932 32.67 LOR-25A 787.929
2446646.415 310337.741 782.84828 46.44 LOR-25A 787.929
```

2446646.415 310337.741 782.71052 56.48 LOR-25A 787.929
2446646.415 310337.741 782.59572 54.89 LOR-25A 787.929
2446646.415 310337.741 782.45796 24.84 LOR-25A 787.929
2446646.415 310337.741 782.33004 31.66 LOR-25A 787.929
2446646.415 310337.741 782.19884 43.1 LOR-25A 787.929
2446646.415 310337.741 782.05452 27.77 LOR-25A 787.929
2446646.415 310337.741 781.91676 25.11 LOR-25A 787.929
2446646.415 310337.741 781.81836 26.74 LOR-25A 787.929
2446646.415 310337.741 781.70356 39.37 LOR-25A 787.929
2446646.415 310337.741 781.5822 38.41 LOR-25A 787.929
2446646.415 310337.741 781.48052 25.58 LOR-25A 787.929
2446646.415 310337.741 781.37884 39.31 LOR-25A 787.929
2446646.415 310337.741 781.2706 38.05 LOR-25A 787.929
2446646.415 310337.741 781.11972 35.49 LOR-25A 787.929
2446646.415 310337.741 780.98196 19.92 LOR-25A 787.929
2446646.415 310337.741 780.88356 21.07 LOR-25A 787.929
2446646.415 310337.741 780.74908 11.39 LOR-25A 787.929
2446646.415 310337.741 780.60476 42.74 LOR-25A 787.929
2446646.415 310337.741 780.50308 27.08 LOR-25A 787.929
2446646.415 310337.741 780.38172 13.87 LOR-25A 787.929
2446646.415 310337.741 780.20788 48.38 LOR-25A 787.929
2446646.415 310337.741 780.09636 43.03 LOR-25A 787.929
2446646.415 310337.741 779.96516 14.93 LOR-25A 787.929
2446646.415 310337.741 779.83724 36.41 LOR-25A 787.929
2446646.415 310337.741 779.70932 33.78 LOR-25A 787.929
2446646.415 310337.741 779.58468 27.95 LOR-25A 787.929
2446646.415 310337.741 779.4338 20.87 LOR-25A 787.929
2446646.415 310337.741 779.30916 17.74 LOR-25A 787.929
2446646.415 310337.741 779.18124 13.11 LOR-25A 787.929
2446646.415 310337.741 779.05332 5.21 LOR-25A 787.929
2446646.415 310337.741 778.93196 3.28 LOR-25A 787.929
2446646.415 310337.741 778.77452 -1.11 LOR-25A 787.929
2446646.415 310337.741 778.5974 -1.82 LOR-25A 787.929
2446646.415 310337.741 778.44652 -0.54 LOR-25A 787.929
2446646.415 310337.741 778.34156 0.35 LOR-25A 787.929
2446646.415 310337.741 778.23004 1.89 LOR-25A 787.929
2446646.415 310337.741 778.12508 -1.13 LOR-25A 787.929
2446646.415 310337.741 777.98404 -2.52 LOR-25A 787.929
2446646.415 310337.741 777.87252 -2.83 LOR-25A 787.929
2446646.415 310337.741 777.73148 -2.88 LOR-25A 787.929
2446646.415 310337.741 777.61996 -2.79 LOR-25A 787.929
2446646.415 310337.741 777.48548 -3.09 LOR-25A 787.929
2446646.415 310337.741 777.37396 -3.2 LOR-25A 787.929
2446646.415 310337.741 777.269 -3.47 LOR-25A 787.929
2446646.415 310337.741 777.14436 -3.32 LOR-25A 787.929
2446646.415 310337.741 777.04596 -3.24 LOR-25A 787.929
2446646.415 310337.741 776.94428 -3.29 LOR-25A 787.929
2446646.415 310337.741 776.82948 -3.6 LOR-25A 787.929
2446646.415 310337.741 776.7278 -3.67 LOR-25A 787.929
2446646.415 310337.741 776.63924 -3.28 LOR-25A 787.929
2446708.344 310301.379 784.049 -0.67 LOR-26 784.049
2446708.344 310301.379 783.94404 0.14 LOR-26 784.049
2446708.344 310301.379 783.82268 -0.41 LOR-26 784.049
2446708.344 310301.379 783.68164 -0.8 LOR-26 784.049
2446708.344 310301.379 783.56028 -0.19 LOR-26 784.049
2446708.344 310301.379 783.43892 -0.93 LOR-26 784.049
2446708.344 310301.379 783.29788 -0.2 LOR-26 784.049
2446708.344 310301.379 783.147 -0.3 LOR-26 784.049
2446708.344 310301.379 783.02236 -0.36 LOR-26 784.049
2446708.344 310301.379 782.89444 -0.35 LOR-26 784.049
2446708.344 310301.379 782.76652 -0.11 LOR-26 784.049
2446708.344 310301.379 782.62548 -0.8 LOR-26 784.049
2446708.344 310301.379 782.51724 -0.52 LOR-26 784.049
2446708.344 310301.379 782.409 -0.48 LOR-26 784.049
2446708.344 310301.379 782.30404 -0.26 LOR-26 784.049
2446708.344 310301.379 782.19252 -0.64 LOR-26 784.049
2446708.344 310301.379 782.0646 -0.59 LOR-26 784.049
2446708.344 310301.379 781.95964 -0.4 LOR-26 784.049
2446708.344 310301.379 781.85796 -0.41 LOR-26 784.049
2446708.344 310301.379 781.74644 -0.79 LOR-26 784.049
2446708.344 310301.379 781.59884 -0.6 LOR-26 784.049
2446708.344 310301.379 781.4578 -0.84 LOR-26 784.049
2446708.344 310301.379 781.33316 -1.1 LOR-26 784.049
2446708.344 310301.379 781.20524 -0.49 LOR-26 784.049
2446708.344 310301.379 781.09372 -0.86 LOR-26 784.049
2446708.344 310301.379 780.9494 -0.64 LOR-26 784.049
2446708.344 310301.379 780.8018 -0.46 LOR-26 784.049
2446708.344 310301.379 780.66732 -0.53 LOR-26 784.049
2446708.344 310301.379 780.53612 -1 LOR-26 784.049
2446708.344 310301.379 780.43116 -0.51 LOR-26 784.049
2446708.344 310301.379 780.41476 -0.76 LOR-26 784.049
2446760.881 310365.59 799.213 0.64 LOR-27 799.213
2446760.881 310365.59 799.0818 0.03 LOR-27 799.213
2446760.881 310365.59 798.95388 0.19 LOR-27 799.213
2446760.881 310365.59 798.82924 -0.01 LOR-27 799.213
2446760.881 310365.59 798.69148 -0.31 LOR-27 799.213
2446760.881 310365.59 798.57996 -0.12 LOR-27 799.213
2446760.881 310365.59 798.46516 -0.18 LOR-27 799.213
2446760.881 310365.59 798.33724 -0.36 LOR-27 799.213
2446760.881 310365.59 798.22572 0.31 LOR-27 799.213
2446760.881 310365.59 798.12404 1.83 LOR-27 799.213
2446760.881 310365.59 797.9994 16.57 LOR-27 799.213
2446760.881 310365.59 797.85508 22.89 LOR-27 799.213
2446760.881 310365.59 797.75012 29.47 LOR-27 799.213
2446760.881 310365.59 797.64844 13.92 LOR-27 799.213
2446760.881 310365.59 797.52052 18.22 LOR-27 799.213
2446760.881 310365.59 797.3926 14.86 LOR-27 799.213
2446760.881 310365.59 797.28764 11.66 LOR-27 799.213
2446760.881 310365.59 797.1794 9.53 LOR-27 799.213
2446760.881 310365.59 797.0646 11.45 LOR-27 799.213
2446760.881 310365.59 796.93012 11.37 LOR-27 799.213
2446760.881 310365.59 796.81532 13.9 LOR-27 799.213

```
2446760.881 310365.59 796.71036 15.82 LOR-27 799.213
2446760.881 310365.59 796.6054 4.65 LOR-27 799.213
2446760.881 310365.59 796.50372 0.88 LOR-27 799.213
2446760.881 310365.59 796.4086 0.13 LOR-27 799.213
2446760.881 310365.59 796.28724 0.3 LOR-27 799.213
2446760.881 310365.59 796.17572 1.1 LOR-27 799.213
2446760.881 310365.59 796.0478 2.36 LOR-27 799.213
2446760.881 310365.59 795.933 3.6 LOR-27 799.213
2446760.881 310365.59 795.81164 2.57 LOR-27 799.213
2446760.881 310365.59 795.69356 4.76 LOR-27 799.213
2446760.881 310365.59 795.56892 3.2 LOR-27 799.213
2446760.881 310365.59 795.46724 3.95 LOR-27 799.213
2446760.881 310365.59 795.35244 3.43 LOR-27 799.213
2446760.881 310365.59 795.25404 2.68 LOR-27 799.213
2446760.881 310365.59 795.15236 5.54 LOR-27 799.213
2446760.881 310365.59 795.02444 2.89 LOR-27 799.213
2446760.881 310365.59 794.89652 2.14 LOR-27 799.213
2446760.881 310365.59 794.78172 2.49 LOR-27 799.213
2446760.881 310365.59 794.66036 4.42 LOR-27 799.213
2446760.881 310365.59 794.54556 5.62 LOR-27 799.213
2446760.881 310365.59 794.43404 7.38 LOR-27 799.213
2446760.881 310365.59 794.33236 5.25 LOR-27 799.213
2446760.881 310365.59 794.20772 4.97 LOR-27 799.213
2446760.881 310365.59 794.10604 5.74 LOR-27 799.213
2446760.881 310365.59 793.98796 3.87 LOR-27 799.213
2446760.881 310365.59 793.84364 10.68 LOR-27 799.213
2446760.881 310365.59 793.72228 9.99 LOR-27 799.213
2446760.881 310365.59 793.6042 6.41 LOR-27 799.213
2446760.881 310365.59 793.48612 7.68 LOR-27 799.213
2446760.881 310365.59 793.3746 22.92 LOR-27 799.213
2446760.881 310365.59 793.2434 6.53 LOR-27 799.213
2446760.881 310365.59 793.11876 2.81 LOR-27 799.213
2446760.881 310365.59 792.97444 3.3 LOR-27 799.213
2446760.881 310365.59 792.86948 2.31 LOR-27 799.213
2446760.881 310365.59 792.76452 0.73 LOR-27 799.213
2446760.881 310365.59 792.63988 0.19 LOR-27 799.213
2446760.881 310365.59 792.53492 1.35 LOR-27 799.213
2446760.881 310365.59 792.43324 1.38 LOR-27 799.213
2446760.881 310365.59 792.33156 0.61 LOR-27 799.213
2446760.881 310365.59 792.21348 0.09 LOR-27 799.213
2446760.881 310365.59 792.079 0.41 LOR-27 799.213
2446760.881 310365.59 791.95436 0.18 LOR-27 799.213
2446760.881 310365.59 791.85268 0.26 LOR-27 799.213
2446760.881 310365.59 791.70836 0.53 LOR-27 799.213
2446760.881 310365.59 791.62308 0.49 LOR-27 799.213
2446804.413 310414.139 796.615 -0.26 LOR-28 796.615
2446804.413 310414.139 796.49692 0.34 LOR-28 796.615
2446804.413 310414.139 796.37228 0.37 LOR-28 796.615
2446804.413 310414.139 796.2542 0.1 LOR-28 796.615
2446804.413 310414.139 796.14268 0 LOR-28 796.615
2446804.413 310414.139 796.01476 0.04 LOR-28 796.615
2446804.413 310414.139 795.88684 -0.01 LOR-28 796.615
2446804.413 310414.139 795.77204 -0.03 LOR-28 796.615
2446804.413 310414.139 795.64412 -0.2 LOR-28 796.615
2446804.413 310414.139 795.5326 0.14 LOR-28 796.615
2446804.413 310414.139 795.42436 0.05 LOR-28 796.615
2446804.413 310414.139 795.31612 -0.11 LOR-28 796.615
2446804.413 310414.139 795.21116 0.06 LOR-28 796.615
2446804.413 310414.139 795.07996 -0.33 LOR-28 796.615
2446804.413 310414.139 794.96844 -0.2 LOR-28 796.615
2446804.413 310414.139 794.86348 -0.3 LOR-28 796.615
2446804.413 310414.139 794.75524 -0.27 LOR-28 796.615
2446804.413 310414.139 794.63388 -0.33 LOR-28 796.615
2446804.413 310414.139 794.53548 -0.14 LOR-28 796.615
2446804.413 310414.139 794.42724 -0.24 LOR-28 796.615
2446804.413 310414.139 794.32556 0.02 LOR-28 796.615
2446804.413 310414.139 794.2042 0 LOR-28 796.615
2446804.413 310414.139 794.07956 -0.08 LOR-28 796.615
2446804.413 310414.139 793.9582 0.02 LOR-28 796.615
2446804.413 310414.139 793.8106 -0.02 LOR-28 796.615
2446804.413 310414.139 793.68924 0.04 LOR-28 796.615
2446804.413 310414.139 793.59084 0.08 LOR-28 796.615
2446804.413 310414.139 793.4334 0.12 LOR-28 796.615
2446804.413 310414.139 793.3186 0.28 LOR-28 796.615
2446804.413 310414.139 793.21036 0.01 LOR-28 796.615
2446804.413 310414.139 793.1054 0.13 LOR-28 796.615
2446804.413 310414.139 792.99716 0.12 LOR-28 796.615
2446804.413 310414.139 792.84628 0.24 LOR-28 796.615
2446804.413 310414.139 792.74132 0.41 LOR-28 796.615
2446804.413 310414.139 792.63964 0.63 LOR-28 796.615
2446804.413 310414.139 792.51172 0.07 LOR-28 796.615
2446804.413 310414.139 792.39036 0.36 LOR-28 796.615
2446804.413 310414.139 792.27228 0.62 LOR-28 796.615
2446804.413 310414.139 792.15748 0.39 LOR-28 796.615
2446804.413 310414.139 792.04596 0.23 LOR-28 796.615
2446804.413 310414.139 791.94756 0.59 LOR-28 796.615
2446804.413 310414.139 791.91476 0.39 LOR-28 796.615
2446734.113 310451.175 793.073 0.35 LOR-29 793.073
2446734.113 310451.175 793.0238 0.24 LOR-29 793.073
2446734.113 310451.175 792.909 0.33 LOR-29 793.073
2446734.113 310451.175 792.77124 0.19 LOR-29 793.073
2446734.113 310451.175 792.65316 0.28 LOR-29 793.073
2446734.113 310451.175 792.54164 0.33 LOR-29 793.073
2446734.113 310451.175 792.43668 0.35 LOR-29 793.073
2446734.113 310451.175 792.32516 0.25 LOR-29 793.073
2446734.113 310451.175 792.18084 0.26 LOR-29 793.073
2446734.113 310451.175 792.04964 0.23 LOR-29 793.073
2446734.113 310451.175 791.925 0.23 LOR-29 793.073
2446734.113 310451.175 791.8594 0.17 LOR-29 793.073
2446734.113 310451.175 791.74788 0.15 LOR-29 793.073
2446734.113 310451.175 791.63964 0.18 LOR-29 793.073
2446734.113 310451.175 791.52812 0.2 LOR-29 793.073
```

```
2446734.113 310451.175 791.41988 0.31 LOR-29 793.073
2446734.113 310451.175 791.30836 0.22 LOR-29 793.073
2446734.113 310451.175 791.20012 0.33 LOR-29 793.073
2446734.113 310451.175 791.06564 0.29 LOR-29 793.073
2446734.113 310451.175 790.93116 0.2 LOR-29 793.073
2446734.113 310451.175 790.82948 0.17 LOR-29 793.073
2446734.113 310451.175 790.73108 0.16 LOR-29 793.073
2446734.113 310451.175 790.66876 0.13 LOR-29 793.073
2446734.113 310451.175 790.55396 0.23 LOR-29 793.073
2446734.113 310451.175 790.44244 0.22 LOR-29 793.073
2446734.113 310451.175 790.32764 0.17 LOR-29 793.073
2446734.113 310451.175 790.22596 0.19 LOR-29 793.073
2446734.113 310451.175 790.121 0.25 LOR-29 793.073
2446734.113 310451.175 790.0226 0.16 LOR-29 793.073
2446734.113 310451.175 789.88484 0.15 LOR-29 793.073
2446734.113 310451.175 789.75692 0.12 LOR-29 793.073
2446734.113 310451.175 789.63228 0.19 LOR-29 793.073
2446734.113 310451.175 789.4814 0.25 LOR-29 793.073
2446734.113 310451.175 789.35676 0.23 LOR-29 793.073
2446734.113 310451.175 789.22884 0.11 LOR-29 793.073
2446734.113 310451.175 789.10748 0.15 LOR-29 793.073
2446734.113 310451.175 788.9894 0.16 LOR-29 793.073
2446734.113 310451.175 788.87132 0.19 LOR-29 793.073
2446734.113 310451.175 788.75324 0.26 LOR-29 793.073
2446734.113 310451.175 788.6122 0.23 LOR-29 793.073
2446734.113 310451.175 788.481 0.21 LOR-29 793.073
2446734.113 310451.175 788.3662 0.32 LOR-29 793.073
2446734.113 310451.175 788.17596 0.25 LOR-29 793.073
2446734.113 310451.175 788.06444 0.15 LOR-29 793.073
2446734.113 310451.175 787.87748 0.26 LOR-29 793.073
2446734.113 310451.175 787.6938 0.29 LOR-29 793.073
2446734.113 310451.175 787.50684 0.22 LOR-29 793.073
2446734.113 310451.175 787.39204 0.19 LOR-29 793.073
2446734.113 310451.175 787.20508 0.24 LOR-29 793.073
2446734.113 310451.175 787.09684 0.19 LOR-29 793.073
2446734.113 310451.175 786.92628 0.17 LOR-29 793.073
2446734.113 310451.175 786.82132 0.13 LOR-29 793.073
2446734.113 310451.175 786.759 0.05 LOR-29 793.073
2446734.113 310451.175 786.68356 0.03 LOR-29 793.073
2446734.113 310451.175 786.55892 0.2 LOR-29 793.073
2446734.113 310451.175 786.44412 -0.08 LOR-29 793.073
2446734.113 310451.175 786.30964 -0.02 LOR-29 793.073
2446734.113 310451.175 786.17188 -0.02 LOR-29 793.073
2446734.113 310451.175 786.04068 0 LOR-29 793.073
2446734.113 310451.175 785.88324 -0.03 LOR-29 793.073
2446734.113 310451.175 785.7586 -0.19 LOR-29 793.073
2446734.113 310451.175 785.60116 -0.11 LOR-29 793.073
2446734.113 310451.175 785.47652 -0.07 LOR-29 793.073
2446734.113 310451.175 785.36172 -0.18 LOR-29 793.073
2446734.113 310451.175 785.26332 -0.08 LOR-29 793.073
2446734.113 310451.175 785.14196 -0.01 LOR-29 793.073
2446734.113 310451.175 785.0206 0.03 LOR-29 793.073
2446734.113 310451.175 784.90908 0.03 LOR-29 793.073
2446734.113 310451.175 784.77788 0.03 LOR-29 793.073
2446734.113 310451.175 784.67292 -0.07 LOR-29 793.073
2446734.113 310451.175 784.57452 -0.02 LOR-29 793.073
2446734.113 310451.175 784.51548 0.1 LOR-29 793.073
2446668.576 310458.889 790.487 -0.39 LOR-30 790.487
2446668.576 310458.889 790.3558 -0.26 LOR-30 790.487
2446668.576 310458.889 790.23772 -0.54 LOR-30 790.487
2446668.576 310458.889 790.12292 -0.44 LOR-30 790.487
2446668.576 310458.889 789.91956 -0.53 LOR-30 790.487
2446668.576 310458.889 789.72604 -0.29 LOR-30 790.487
2446668.576 310458.889 789.61124 -0.36 LOR-30 790.487
2446668.576 310458.889 789.49972 -0.46 LOR-30 790.487
2446668.576 310458.889 789.3882 -0.34 LOR-30 790.487
2446668.576 310458.889 789.28652 -0.52 LOR-30 790.487
2446668.576 310458.889 789.175 -0.42 LOR-30 790.487
2446668.576 310458.889 789.06676 -0.48 LOR-30 790.487
2446668.576 310458.889 788.9618 -0.75 LOR-30 790.487
2446668.576 310458.889 788.8306 -0.5 LOR-30 790.487
2446668.576 310458.889 788.71908 -0.39 LOR-30 790.487
2446668.576 310458.889 788.61084 -0.51 LOR-30 790.487
2446668.576 310458.889 788.49604 -0.54 LOR-30 790.487
2446668.576 310458.889 788.3878 -0.49 LOR-30 790.487
2446668.576 310458.889 788.27628 -0.47 LOR-30 790.487
2446668.576 310458.889 788.16476 -0.45 LOR-30 790.487
2446668.576 310458.889 788.03028 -0.38 LOR-30 790.487
2446668.576 310458.889 787.91876 -0.33 LOR-30 790.487
2446668.576 310458.889 787.80724 -0.49 LOR-30 790.487
2446668.576 310458.889 787.69572 -0.36 LOR-30 790.487
2446668.576 310458.889 787.58092 -0.48 LOR-30 790.487
2446668.576 310458.889 787.47268 -0.49 LOR-30 790.487
2446668.576 310458.889 787.32836 -0.38 LOR-30 790.487
2446668.576 310458.889 787.19388 -0.38 LOR-30 790.487
2446668.576 310458.889 787.06924 -0.44 LOR-30 790.487
2446668.576 310458.889 786.94132 -0.51 LOR-30 790.487
2446668.576 310458.889 786.78716 -0.5 LOR-30 790.487
2446668.576 310458.889 786.65924 -0.42 LOR-30 790.487
2446668.576 310458.889 786.53132 -0.45 LOR-30 790.487
2446668.576 310458.889 786.39684 -0.39 LOR-30 790.487
2446668.576 310458.889 786.27876 -0.36 LOR-30 790.487
2446668.576 310458.889 786.16068 -0.34 LOR-30 790.487
2446668.576 310458.889 786.01964 -0.57 LOR-30 790.487
2446668.576 310458.889 785.90156 -0.45 LOR-30 790.487
2446668.576 310458.889 785.78676 -0.45 LOR-30 790.487
2446668.576 310458.889 785.66868 -0.55 LOR-30 790.487
2446668.576 310458.889 785.55388 -0.38 LOR-30 790.487
2446668.576 310458.889 785.38332 -0.38 LOR-30 790.487
2446668.576 310458.889 785.239 -0.33 LOR-30 790.487
2446668.576 310458.889 785.09468 -0.44 LOR-30 790.487
2446668.576 310458.889 784.95036 3.55 LOR-30 790.487
```

```
2446668.576 310458.889 784.85196 2.63 LOR-30 790.487
2446668.576 310458.889 784.69452 11.61 LOR-30 790.487
2446668.576 310458.889 784.54364 27.72 LOR-30 790.487
2446668.576 310458.889 784.35668 16.08 LOR-30 790.487
2446668.576 310458.889 784.2058 14.31 LOR-30 790.487
2446668.576 310458.889 784.05492 16.61 LOR-30 790.487
2446668.576 310458.889 783.90404 0.5 LOR-30 790.487
2446668.576 310458.889 783.77612 1 LOR-30 790.487
2446668.576 310458.889 783.66788 5.81 LOR-30 790.487
2446668.576 310458.889 783.5662 8.6 LOR-30 790.487
2446668.576 310458.889 783.43828 2.16 LOR-30 790.487
2446668.576 310458.889 783.33332 38.17 LOR-30 790.487
2446668.576 310458.889 783.23164 1.04 LOR-30 790.487
2446668.576 310458.889 783.107 -0.29 LOR-30 790.487
2446668.576 310458.889 783.00204 -0.3 LOR-30 790.487
2446668.576 310458.889 782.88068 -0.09 LOR-30 790.487
2446668.576 310458.889 782.77244 0.04 LOR-30 790.487
2446668.576 310458.889 782.62156 -0.18 LOR-30 790.487
2446668.576 310458.889 782.47068 -0.13 LOR-30 790.487
2446668.576 310458.889 782.3362 -0.14 LOR-30 790.487
2446668.576 310458.889 782.21484 -0.18 LOR-30 790.487
2446668.576 310458.889 782.04756 -0.19 LOR-30 790.487
2446668.576 310458.889 781.90652 -0.1 LOR-30 790.487
2446668.576 310458.889 781.76876 -0.3 LOR-30 790.487
2446668.576 310458.889 781.631 -0.39 LOR-30 790.487
2446668.576 310458.889 781.49324 -0.25 LOR-30 790.487
2446668.576 310458.889 781.35876 -0.21 LOR-30 790.487
2446668.576 310458.889 781.20132 0.07 LOR-30 790.487
2446668.576 310458.889 781.07668 -0.49 LOR-30 790.487
2446668.576 310458.889 780.91596 -0.33 LOR-30 790.487
2446668.576 310458.889 780.80772 -0.19 LOR-30 790.487
2446668.576 310458.889 780.69948 -0.21 LOR-30 790.487
2446668.576 310458.889 780.59124 -0.35 LOR-30 790.487
2446668.576 310458.889 780.483 -0.24 LOR-30 790.487
2446668.576 310458.889 780.35508 -0.39 LOR-30 790.487
2446668.576 310458.889 780.24684 -0.36 LOR-30 790.487
2446668.576 310458.889 780.13532 -0.36 LOR-30 790.487
2446668.576 310458.889 780.03036 -0.24 LOR-30 790.487
2446668.576 310458.889 779.92212 -0.42 LOR-30 790.487
2446668.576 310458.889 779.81388 -0.38 LOR-30 790.487
2446668.576 310458.889 779.7122 -0.41 LOR-30 790.487
2446668.576 310458.889 779.60068 -0.48 LOR-30 790.487
2446668.576 310458.889 779.4662 -0.41 LOR-30 790.487
2446668.576 310458.889 779.35796 -0.27 LOR-30 790.487
2446668.576 310458.889 779.29564 -0.32 LOR-30 790.487
2446645.911 310383.212 787.826 0.73 LOR-31 787.826
2446645.911 310383.212 787.70136 -0.06 LOR-31 787.826
2446645.911 310383.212 787.5472 0.05 LOR-31 787.826
2446645.911 310383.212 787.44224 -0.03 LOR-31 787.826
2446645.911 310383.212 787.3176 -0.18 LOR-31 787.826
2446645.911 310383.212 787.19296 -0.06 LOR-31 787.826
2446645.911 310383.212 787.17 -0.06 LOR-31 787.826
2446627.747 310772.261 796.332 -0.56 LOR-32 796.332
2446627.747 310772.261 796.22048 -0.13 LOR-32 796.332
2446627.747 310772.261 796.04008 1.2 LOR-32 796.332
2446627.747 310772.261 795.9384 0.75 LOR-32 796.332
2446627.747 310772.261 795.77768 0.39 LOR-32 796.332
2446627.747 310772.261 795.61368 0.08 LOR-32 796.332
2446627.747 310772.261 795.512 0.16 LOR-32 796.332
2446627.747 310772.261 795.348 -0.02 LOR-32 796.332
2446627.747 310772.261 795.17744 0.02 LOR-32 796.332
2446627.747 310772.261 795.07576 -0.02 LOR-32 796.332
2446627.747 310772.261 794.9052 0.06 LOR-32 796.332
2446627.747 310772.261 794.80352 0.08 LOR-32 796.332
2446627.747 310772.261 794.62968 0.07 LOR-32 796.332
2446627.747 310772.261 794.528 0.08 LOR-32 796.332
2446627.747 310772.261 794.35416 0.13 LOR-32 796.332
2446627.747 310772.261 794.1836 0.03 LOR-32 796.332
2446627.747 310772.261 794.07864 0.03 LOR-32 796.332
2446627.747 310772.261 793.90808 0.06 LOR-32 796.332
2446627.747 310772.261 793.74736 0.08 LOR-32 796.332
2446627.747 310772.261 793.62928 0.09 LOR-32 796.332
2446627.747 310772.261 793.45216 0.16 LOR-32 796.332
2446627.747 310772.261 793.3472 0.1 LOR-32 796.332
2446627.747 310772.261 793.17008 0.31 LOR-32 796.332
2446627.747 310772.261 793.06512 0.4 LOR-32 796.332
2446627.747 310772.261 792.888 1.14 LOR-32 796.332
2446627.747 310772.261 792.77976 6.96 LOR-32 796.332
2446627.747 310772.261 792.59936 16.09 LOR-32 796.332
2446627.747 310772.261 792.49112 14.78 LOR-32 796.332
2446627.747 310772.261 792.31072 12.61 LOR-32 796.332
2446627.747 310772.261 792.20576 10.32 LOR-32 796.332
2446627.747 310772.261 792.02208 11.24 LOR-32 796.332
2446627.747 310772.261 791.91384 11.81 LOR-32 796.332
2446627.747 310772.261 791.73344 10.74 LOR-32 796.332
2446627.747 310772.261 791.54648 11.31 LOR-32 796.332
2446627.747 310772.261 791.44152 9.81 LOR-32 796.332
2446627.747 310772.261 791.25784 10.39 LOR-32 796.332
2446627.747 310772.261 791.08072 8.99 LOR-32 796.332
2446627.747 310772.261 790.9692 11.29 LOR-32 796.332
2446627.747 310772.261 790.82488 8.19 LOR-32 796.332
2446627.747 310772.261 790.68056 13.16 LOR-32 796.332
2446627.747 310772.261 790.57232 7.28 LOR-32 796.332
2446627.747 310772.261 790.4608 9.63 LOR-32 796.332
2446627.747 310772.261 790.34928 8.1 LOR-32 796.332
2446627.747 310772.261 790.1656 10.85 LOR-32 796.332
2446627.747 310772.261 790.05408 8.97 LOR-32 796.332
2446627.747 310772.261 789.89664 8.41 LOR-32 796.332
2446627.747 310772.261 789.79168 7.63 LOR-32 796.332
2446627.747 310772.261 789.68344 8.08 LOR-32 796.332
2446627.747 310772.261 789.50632 4.16 LOR-32 796.332
2446627.747 310772.261 789.32264 5.69 LOR-32 796.332
```

```
2446627.747 310772.261 789.2144 4.31 LOR-32 796.332
2446627.747 310772.261 789.034 5.77 LOR-32 796.332
2446627.747 310772.261 788.85032 10.99 LOR-32 796.332
2446627.747 310772.261 788.74208 12.81 LOR-32 796.332
2446627.747 310772.261 788.62728 10.72 LOR-32 796.332
2446627.747 310772.261 788.44688 4.06 LOR-32 796.332
2446627.747 310772.261 788.33536 2.94 LOR-32 796.332
2446627.747 310772.261 788.15168 4.14 LOR-32 796.332
2446627.747 310772.261 788.04344 6.04 LOR-32 796.332
2446627.747 310772.261 787.85976 10.74 LOR-32 796.332
2446627.747 310772.261 787.6728 9.32 LOR-32 796.332
2446627.747 310772.261 787.56456 7.83 LOR-32 796.332
2446627.747 310772.261 787.45632 8.11 LOR-32 796.332
2446627.747 310772.261 787.26936 9.35 LOR-32 796.332
2446627.747 310772.261 787.15784 11.8 LOR-32 796.332
2446627.747 310772.261 787.02664 6.78 LOR-32 796.332
2446627.747 310772.261 786.91184 6.48 LOR-32 796.332
2446627.747 310772.261 786.80688 11.24 LOR-32 796.332
2446627.747 310772.261 786.69864 9.65 LOR-32 796.332
2446627.747 310772.261 786.5904 5.98 LOR-32 796.332
2446627.747 310772.261 786.40672 4.75 LOR-32 796.332
2446627.747 310772.261 786.29848 2.41 LOR-32 796.332
2446627.747 310772.261 786.11808 2.79 LOR-32 796.332
2446627.747 310772.261 785.9344 2.55 LOR-32 796.332
2446627.747 310772.261 785.82288 2.7 LOR-32 796.332
2446627.747 310772.261 785.6392 1.91 LOR-32 796.332
2446627.747 310772.261 785.52768 0.85 LOR-32 796.332
2446627.747 310772.261 785.344 0.39 LOR-32 796.332
2446627.747 310772.261 785.23248 0.16 LOR-32 796.332
2446627.747 310772.261 785.12424 0.08 LOR-32 796.332
2446627.747 310772.261 784.934 0.64 LOR-32 796.332
2446627.747 310772.261 784.75032 1.65 LOR-32 796.332
2446627.747 310772.261 784.6388 2.63 LOR-32 796.332
2446627.747 310772.261 784.45512 1.25 LOR-32 796.332
2446627.747 310772.261 784.35016 0.63 LOR-32 796.332
2446627.747 310772.261 784.23864 1.13 LOR-32 796.332
2446627.747 310772.261 784.05168 1.28 LOR-32 796.332
2446627.747 310772.261 783.93032 0.88 LOR-32 796.332
2446627.747 310772.261 783.74336 0.11 LOR-32 796.332
2446627.747 310772.261 783.63184 0.45 LOR-32 796.332
2446627.747 310772.261 783.45144 0.13 LOR-32 796.332
2446627.747 310772.261 783.33992 0.38 LOR-32 796.332
2446627.747 310772.261 783.15952 -0.12 LOR-32 796.332
2446627.747 310772.261 782.97912 1.19 LOR-32 796.332
2446627.747 310772.261 782.87088 1.2 LOR-32 796.332
2446627.747 310772.261 782.6872 -0.04 LOR-32 796.332
2446627.747 310772.261 782.57896 0.04 LOR-32 796.332
2446627.747 310772.261 782.474 0.26 LOR-32 796.332
2446627.747 310772.261 782.29688 -0.04 LOR-32 796.332
2446627.747 310772.261 782.1952 -0.02 LOR-32 796.332
2446627.747 310772.261 782.01808 -0.09 LOR-32 796.332
2446627.747 310772.261 781.83768 -0.11 LOR-32 796.332
2446627.747 310772.261 781.73272 -0.11 LOR-32 796.332
2446627.747 310772.261 781.5556 -0.14 LOR-32 796.332
2446627.747 310772.261 781.45064 -0.08 LOR-32 796.332
2446627.747 310772.261 781.2768 -0.1 LOR-32 796.332
2446627.747 310772.261 781.0964 0 LOR-32 796.332
2446627.747 310772.261 780.98816 -0.08 LOR-32 796.332
2446627.747 310772.261 780.81104 -0.04 LOR-32 796.332
2446627.747 310772.261 780.71264 -0.16 LOR-32 796.332
2446627.747 310772.261 780.53552 -0.17 LOR-32 796.332
2446627.747 310772.261 780.40104 -0.15 LOR-32 796.332
2446627.747 310772.261 780.25344 -0.2 LOR-32 796.332
2446627.747 310772.261 780.14848 -0.19 LOR-32 796.332
2446627.747 310772.261 780.0468 -0.19 LOR-32 796.332
2446627.747 310772.261 779.86968 -0.19 LOR-32 796.332
2446627.747 310772.261 779.70896 0.59 LOR-32 796.332
2446627.747 310772.261 779.604 1.46 LOR-32 796.332
2446627.747 310772.261 779.49904 0.18 LOR-32 796.332
2446627.747 310772.261 779.31864 -0.2 LOR-32 796.332
2446627.747 310772.261 779.21696 -0.24 LOR-32 796.332
2446627.747 310772.261 779.10872 -0.25 LOR-32 796.332
2446627.747 310772.261 778.9972 -0.25 LOR-32 796.332
2446627.747 310772.261 778.9808 -0.23 LOR-32 796.332
2446678.778 310771.007 792.673 0.78 LOR-33 792.673
2446678.778 310771.007 792.53852 2.13 LOR-33 792.673
2446678.778 310771.007 792.43356 2.21 LOR-33 792.673
2446678.778 310771.007 792.26956 2.77 LOR-33 792.673
2446678.778 310771.007 792.1318 2.7 LOR-33 792.673
2446678.778 310771.007 792.0006 2.1 LOR-33 792.673
2446678.778 310771.007 791.85956 2.2 LOR-33 792.673
2446678.778 310771.007 791.66604 1.98 LOR-33 792.673
2446678.778 310771.007 791.49548 2.36 LOR-33 792.673
2446678.778 310771.007 791.31836 2.13 LOR-33 792.673
2446678.778 310771.007 791.2134 1.73 LOR-33 792.673
2446678.778 310771.007 791.03956 1.83 LOR-33 792.673
2446678.778 310771.007 790.9346 1.78 LOR-33 792.673
2446678.778 310771.007 790.7542 2.44 LOR-33 792.673
2446678.778 310771.007 790.64596 2.58 LOR-33 792.673
2446678.778 310771.007 790.46228 2.54 LOR-33 792.673
2446678.778 310771.007 790.35404 2.41 LOR-33 792.673
2446678.778 310771.007 790.17036 1.84 LOR-33 792.673
2446678.778 310771.007 790.04244 2.16 LOR-33 792.673
2446678.778 310771.007 789.8522 2.16 LOR-33 792.673
2446678.778 310771.007 789.74724 2.28 LOR-33 792.673
2446678.778 310771.007 789.55044 2.42 LOR-33 792.673
2446678.778 310771.007 789.42908 2.49 LOR-33 792.673
2446678.778 310771.007 789.229 2.31 LOR-33 792.673
2446678.778 310771.007 789.10764 5.3 LOR-33 792.673
2446678.778 310771.007 788.90428 25.01 LOR-33 792.673
2446678.778 310771.007 788.78292 28.99 LOR-33 792.673
2446678.778 310771.007 788.57956 21.68 LOR-33 792.673
```

2446678.778 310771.007 788.4582 18.08 LOR-33 792.673
2446678.778 310771.007 788.33684 23.54 LOR-33 792.673
2446678.778 310771.007 788.13348 29.46 LOR-33 792.673
2446678.778 310771.007 787.93012 28.55 LOR-33 792.673
2446678.778 310771.007 787.80876 22.64 LOR-33 792.673
2446678.778 310771.007 787.6054 24.72 LOR-33 792.673
2446678.778 310771.007 787.48404 19.66 LOR-33 792.673
2446678.778 310771.007 787.28068 18.02 LOR-33 792.673
2446678.778 310771.007 787.15932 16.32 LOR-33 792.673
2446678.778 310771.007 786.9658 12.55 LOR-33 792.673
2446678.778 310771.007 786.81492 8.58 LOR-33 792.673
2446678.778 310771.007 786.61484 11.67 LOR-33 792.673
2446678.778 310771.007 786.49676 12.27 LOR-33 792.673
2446678.778 310771.007 786.2934 13.3 LOR-33 792.673
2446678.778 310771.007 786.17532 15.73 LOR-33 792.673
2446678.778 310771.007 785.97196 10.86 LOR-33 792.673
2446678.778 310771.007 785.76204 4.88 LOR-33 792.673
2446678.778 310771.007 785.64068 7.7 LOR-33 792.673
2446678.778 310771.007 785.5226 17.33 LOR-33 792.673
2446678.778 310771.007 785.31596 6.81 LOR-33 792.673
2446678.778 310771.007 785.1946 6.29 LOR-33 792.673
2446678.778 310771.007 784.98468 3.65 LOR-33 792.673
2446678.778 310771.007 784.78132 10.2 LOR-33 792.673
2446678.778 310771.007 784.65996 6.81 LOR-33 792.673
2446678.778 310771.007 784.53532 3.67 LOR-33 792.673
2446678.778 310771.007 784.33196 3.28 LOR-33 792.673
2446678.778 310771.007 784.12532 4.31 LOR-33 792.673
2446678.778 310771.007 783.9974 4.5 LOR-33 792.673
2446678.778 310771.007 783.79076 4.25 LOR-33 792.673
2446678.778 310771.007 783.65956 3.12 LOR-33 792.673
2446678.778 310771.007 783.5382 3.4 LOR-33 792.673
2446678.778 310771.007 783.33484 5.85 LOR-33 792.673
2446678.778 310771.007 783.1282 4.59 LOR-33 792.673
2446678.778 310771.007 783.00684 3.38 LOR-33 792.673
2446678.778 310771.007 782.82316 13.5 LOR-33 792.673
2446678.778 310771.007 782.71492 8.76 LOR-33 792.673
2446678.778 310771.007 782.60668 3.98 LOR-33 792.673
2446678.778 310771.007 782.43612 3.9 LOR-33 792.673
2446678.778 310771.007 782.33116 3.66 LOR-33 792.673
2446678.778 310771.007 782.1606 3.35 LOR-33 792.673
2446678.778 310771.007 781.99004 3.53 LOR-33 792.673
2446678.778 310771.007 781.88508 3.28 LOR-33 792.673
2446678.778 310771.007 781.71452 4.82 LOR-33 792.673
2446678.778 310771.007 781.60956 4.66 LOR-33 792.673
2446678.778 310771.007 781.43572 4.19 LOR-33 792.673
2446678.778 310771.007 781.26516 3.18 LOR-33 792.673
2446678.778 310771.007 781.16348 2.71 LOR-33 792.673
2446678.778 310771.007 780.98636 2.75 LOR-33 792.673
2446678.778 310771.007 780.88468 1.64 LOR-33 792.673
2446678.778 310771.007 780.8158 0.01 LOR-33 792.673
2446678.778 310771.007 780.71084 -0.06 LOR-33 792.673
2446678.778 310771.007 780.60916 0.08 LOR-33 792.673
2446678.778 310771.007 780.51076 0.22 LOR-33 792.673
2446678.778 310771.007 780.35004 0.51 LOR-33 792.673
2446678.778 310771.007 780.25164 0.35 LOR-33 792.673
2446678.778 310771.007 780.08436 0.27 LOR-33 792.673
2446678.778 310771.007 779.98268 0.3 LOR-33 792.673
2446678.778 310771.007 779.8154 0.41 LOR-33 792.673
2446678.778 310771.007 779.64484 0.26 LOR-33 792.673
2446678.778 310771.007 779.54316 0.34 LOR-33 792.673
2446678.778 310771.007 779.3726 0.91 LOR-33 792.673
2446678.778 310771.007 779.20204 2.46 LOR-33 792.673
2446678.778 310771.007 779.10036 1.64 LOR-33 792.673
2446678.778 310771.007 778.9954 1.95 LOR-33 792.673
2446678.778 310771.007 778.92652 5.03 LOR-33 792.673
2446678.778 310771.007 778.82484 5.16 LOR-33 792.673
2446678.778 310771.007 778.72644 3.18 LOR-33 792.673
2446678.778 310771.007 778.55588 1.93 LOR-33 792.673
2446678.778 310771.007 778.38532 1.79 LOR-33 792.673
2446678.778 310771.007 778.28364 1.92 LOR-33 792.673
2446678.778 310771.007 778.11636 1.01 LOR-33 792.673
2446678.778 310771.007 777.95236 3.19 LOR-33 792.673
2446678.778 310771.007 777.85396 2.42 LOR-33 792.673
2446678.778 310771.007 777.75556 2.25 LOR-33 792.673
2446678.778 310771.007 777.65716 1.55 LOR-33 792.673
2446678.778 310771.007 777.49316 1.91 LOR-33 792.673
2446678.778 310771.007 777.39476 2.21 LOR-33 792.673
2446678.778 310771.007 777.24716 2.64 LOR-33 792.673
2446678.778 310771.007 777.13236 3.44 LOR-33 792.673
2446678.778 310771.007 776.97164 1.15 LOR-33 792.673
2446678.778 310771.007 776.87324 0.94 LOR-33 792.673
2446678.778 310771.007 776.7158 1.43 LOR-33 792.673
2446678.778 310771.007 776.6174 0.53 LOR-33 792.673
2446678.778 310771.007 776.45668 0.37 LOR-33 792.673
2446678.778 310771.007 776.35828 0.22 LOR-33 792.673
2446678.778 310771.007 776.19756 0.54 LOR-33 792.673
2446678.778 310771.007 776.09916 0.69 LOR-33 792.673
2446678.778 310771.007 776.00076 1.03 LOR-33 792.673
2446678.778 310771.007 775.83348 0.31 LOR-33 792.673
2446678.778 310771.007 775.66948 0.74 LOR-33 792.673
2446678.778 310771.007 775.57108 0.72 LOR-33 792.673
2446678.778 310771.007 775.40708 2.54 LOR-33 792.673
2446678.778 310771.007 775.30868 5.37 LOR-33 792.673
2446678.778 310771.007 775.14468 2.57 LOR-33 792.673
2446678.778 310771.007 774.98068 6.01 LOR-33 792.673
2446678.778 310771.007 774.88228 3.56 LOR-33 792.673
2446678.778 310771.007 774.72156 1.13 LOR-33 792.673
2446678.778 310771.007 774.62316 1.22 LOR-33 792.673
2446678.778 310771.007 774.46244 3.55 LOR-33 792.673
2446678.778 310771.007 774.30172 4.13 LOR-33 792.673
2446678.778 310771.007 774.1082 0.75 LOR-33 792.673
2446678.778 310771.007 773.9442 1.53 LOR-33 792.673

```
2446678.778 310771.007 773.79988 2.49 LOR-33 792.673
2446678.778 310771.007 773.67852 3.73 LOR-33 792.673
2446678.778 310771.007 773.56044 0.94 LOR-33 792.673
2446678.778 310771.007 773.39316 0.35 LOR-33 792.673
2446678.778 310771.007 773.2882 0.26 LOR-33 792.673
2446678.778 310771.007 773.24884 0.48 LOR-33 792.673
2446646.576 310700.646 797.299 0.05 LOR-34 797.299
2446646.576 310700.646 797.12516 0.75 LOR-34 797.299
2446646.576 310700.646 796.97756 2.18 LOR-34 797.299
2446646.576 310700.646 796.80044 1.76 LOR-34 797.299
2446646.576 310700.646 796.65284 0.42 LOR-34 797.299
2446646.576 310700.646 796.50524 0.25 LOR-34 797.299
2446646.576 310700.646 796.35108 0.22 LOR-34 797.299
2446646.576 310700.646 796.17724 0.26 LOR-34 797.299
2446646.576 310700.646 796.02964 0.19 LOR-34 797.299
2446646.576 310700.646 795.87548 0.22 LOR-34 797.299
2446646.576 310700.646 795.7246 0.23 LOR-34 797.299
2446646.576 310700.646 795.54092 0.2 LOR-34 797.299
2446646.576 310700.646 795.38676 0.2 LOR-34 797.299
2446646.576 310700.646 795.2326 0.15 LOR-34 797.299
2446646.576 310700.646 795.1342 0.15 LOR-34 797.299
2446646.576 310700.646 794.97676 0.2 LOR-34 797.299
2446646.576 310700.646 794.81604 0.17 LOR-34 797.299
2446646.576 310700.646 794.66844 0.15 LOR-34 797.299
2446646.576 310700.646 794.5274 0.15 LOR-34 797.299
2446646.576 310700.646 794.347 0.19 LOR-34 797.299
2446646.576 310700.646 794.22892 0.29 LOR-34 797.299
2446646.576 310700.646 794.02884 0.35 LOR-34 797.299
2446646.576 310700.646 793.82548 2.21 LOR-34 797.299
2446646.576 310700.646 793.70412 2.2 LOR-34 797.299
2446646.576 310700.646 793.49748 8.5 LOR-34 797.299
2446646.576 310700.646 793.2974 5.1 LOR-34 797.299
2446646.576 310700.646 793.17932 7.04 LOR-34 797.299
2446646.576 310700.646 793.00876 4.06 LOR-34 797.299
2446646.576 310700.646 792.91036 3.87 LOR-34 797.299
2446646.576 310700.646 792.74964 4.24 LOR-34 797.299
2446646.576 310700.646 792.65124 3.95 LOR-34 797.299
2446646.576 310700.646 792.49052 5.5 LOR-34 797.299
2446646.576 310700.646 792.32652 5.44 LOR-34 797.299
2446646.576 310700.646 792.1658 16.22 LOR-34 797.299
2446646.576 310700.646 792.0674 16.93 LOR-34 797.299
2446646.576 310700.646 791.90668 11.39 LOR-34 797.299
2446646.576 310700.646 791.80828 10.91 LOR-34 797.299
2446646.576 310700.646 791.64756 8.52 LOR-34 797.299
2446646.576 310700.646 791.54588 17.71 LOR-34 797.299
2446646.576 310700.646 791.48028 26.37 LOR-34 797.299
2446646.576 310700.646 791.35236 13.87 LOR-34 797.299
2446646.576 310700.646 791.21788 19.94 LOR-34 797.299
2446646.576 310700.646 791.02764 11.78 LOR-34 797.299
2446646.576 310700.646 790.8702 13.39 LOR-34 797.299
2446646.576 310700.646 790.76852 14.18 LOR-34 797.299
2446646.576 310700.646 790.6078 14.36 LOR-34 797.299
2446646.576 310700.646 790.44708 26.45 LOR-34 797.299
2446646.576 310700.646 790.34868 28.92 LOR-34 797.299
2446646.576 310700.646 790.17812 22.8 LOR-34 797.299
2446646.576 310700.646 790.07644 22.89 LOR-34 797.299
2446646.576 310700.646 789.97804 29.93 LOR-34 797.299
2446646.576 310700.646 789.81076 21.66 LOR-34 797.299
2446646.576 310700.646 789.64348 23.96 LOR-34 797.299
2446646.576 310700.646 789.47292 14.8 LOR-34 797.299
2446646.576 310700.646 789.37124 13.15 LOR-34 797.299
2446646.576 310700.646 789.20724 10.24 LOR-34 797.299
2446646.576 310700.646 789.10228 15.5 LOR-34 797.299
2446646.576 310700.646 788.93828 46.03 LOR-34 797.299
2446646.576 310700.646 788.8366 15.31 LOR-34 797.299
2446646.576 310700.646 788.7382 9.57 LOR-34 797.299
2446646.576 310700.646 788.56764 9.18 LOR-34 797.299
2446646.576 310700.646 788.46924 9.44 LOR-34 797.299
2446646.576 310700.646 788.29868 12.68 LOR-34 797.299
2446646.576 310700.646 788.20028 9.15 LOR-34 797.299
2446646.576 310700.646 788.07236 7.92 LOR-34 797.299
2446646.576 310700.646 787.92476 30.76 LOR-34 797.299
2446646.576 310700.646 787.76732 22.94 LOR-34 797.299
2446646.576 310700.646 787.66892 46.2 LOR-34 797.299
2446646.576 310700.646 787.5082 10.41 LOR-34 797.299
2446646.576 310700.646 787.4098 8.22 LOR-34 797.299
2446646.576 310700.646 787.25236 9.89 LOR-34 797.299
2446646.576 310700.646 787.15396 13.68 LOR-34 797.299
2446646.576 310700.646 786.99652 8.88 LOR-34 797.299
2446646.576 310700.646 786.89812 7.86 LOR-34 797.299
2446646.576 310700.646 786.7374 21.77 LOR-34 797.299
2446646.576 310700.646 786.639 24.69 LOR-34 797.299
2446646.576 310700.646 786.47828 24.26 LOR-34 797.299
2446646.576 310700.646 786.37988 13.81 LOR-34 797.299
2446646.576 310700.646 786.21916 8.06 LOR-34 797.299
2446646.576 310700.646 786.12076 7.3 LOR-34 797.299
2446646.576 310700.646 785.96004 5.6 LOR-34 797.299
2446646.576 310700.646 785.85836 4.1 LOR-34 797.299
2446646.576 310700.646 785.69764 2.89 LOR-34 797.299
2446646.576 310700.646 785.59924 5.24 LOR-34 797.299
2446646.576 310700.646 785.44508 7.3 LOR-34 797.299
2446646.576 310700.646 785.34668 4.06 LOR-34 797.299
2446646.576 310700.646 785.18596 1.92 LOR-34 797.299
2446646.576 310700.646 785.02524 3.09 LOR-34 797.299
2446646.576 310700.646 784.9006 2.72 LOR-34 797.299
2446646.576 310700.646 784.77596 1.55 LOR-34 797.299
2446646.576 310700.646 784.60868 1.21 LOR-34 797.299
2446646.576 310700.646 784.4578 1.33 LOR-34 797.299
2446646.576 310700.646 784.3594 0.69 LOR-34 797.299
2446646.576 310700.646 784.343 0.99 LOR-34 797.299
2446785.859 310717.156 803.382 0.85 LOR-35 803.382
2446785.859 310717.156 803.25736 0.33 LOR-35 803.382
```

```
2446785.859 310717.156 803.09008 0.31 LOR-35 803.382
2446785.859 310717.156 802.9556 1.43 LOR-35 803.382
2446785.859 310717.156 802.81784 1.12 LOR-35 803.382
2446785.859 310717.156 802.71944 0.82 LOR-35 803.382
2446785.859 310717.156 802.50952 0.7 LOR-35 803.382
2446785.859 310717.156 802.35536 0.58 LOR-35 803.382
2446785.859 310717.156 802.25696 0.59 LOR-35 803.382
2446785.859 310717.156 802.09952 0.43 LOR-35 803.382
2446785.859 310717.156 801.99784 0.41 LOR-35 803.382
2446785.859 310717.156 801.8568 0.26 LOR-35 803.382
2446785.859 310717.156 801.7584 0.36 LOR-35 803.382
2446785.859 310717.156 801.60096 0.44 LOR-35 803.382
2446785.859 310717.156 801.44024 0.42 LOR-35 803.382
2446785.859 310717.156 801.2828 0.44 LOR-35 803.382
2446785.859 310717.156 801.1844 0.39 LOR-35 803.382
2446785.859 310717.156 801.02696 0.43 LOR-35 803.382
2446785.859 310717.156 800.92856 0.34 LOR-35 803.382
2446785.859 310717.156 800.76456 0.43 LOR-35 803.382
2446785.859 310717.156 800.59728 0.4 LOR-35 803.382
2446785.859 310717.156 800.43984 0.41 LOR-35 803.382
2446785.859 310717.156 800.27256 0.34 LOR-35 803.382
2446785.859 310717.156 800.10856 0.38 LOR-35 803.382
2446785.859 310717.156 799.94456 0.34 LOR-35 803.382
2446785.859 310717.156 799.84616 0.28 LOR-35 803.382
2446785.859 310717.156 799.74776 0.31 LOR-35 803.382
2446785.859 310717.156 799.58048 0.29 LOR-35 803.382
2446785.859 310717.156 799.4788 0.33 LOR-35 803.382
2446785.859 310717.156 799.31152 0.31 LOR-35 803.382
2446785.859 310717.156 799.14424 0.33 LOR-35 803.382
2446785.859 310717.156 799.04256 0.36 LOR-35 803.382
2446785.859 310717.156 798.87528 0.33 LOR-35 803.382
2446785.859 310717.156 798.7736 0.35 LOR-35 803.382
2446785.859 310717.156 798.60632 0.36 LOR-35 803.382
2446785.859 310717.156 798.43576 0.27 LOR-35 803.382
2446785.859 310717.156 798.33408 0.33 LOR-35 803.382
2446785.859 310717.156 798.16352 0.29 LOR-35 803.382
2446785.859 310717.156 798.06184 0.29 LOR-35 803.382
2446785.859 310717.156 797.89128 0.34 LOR-35 803.382
2446785.859 310717.156 797.7896 0.32 LOR-35 803.382
2446785.859 310717.156 797.61576 0.5 LOR-35 803.382
2446785.859 310717.156 797.50752 0.56 LOR-35 803.382
2446785.859 310717.156 797.3468 0.4 LOR-35 803.382
2446785.859 310717.156 797.24512 0.34 LOR-35 803.382
2446785.859 310717.156 797.07784 0.43 LOR-35 803.382
2446785.859 310717.156 796.97616 0.72 LOR-35 803.382
2446785.859 310717.156 796.80232 0.43 LOR-35 803.382
2446785.859 310717.156 796.69736 0.71 LOR-35 803.382
2446785.859 310717.156 796.5268 1.61 LOR-35 803.382
2446785.859 310717.156 796.35296 0.99 LOR-35 803.382
2446785.859 310717.156 796.24472 0.68 LOR-35 803.382
2446785.859 310717.156 796.07088 1.23 LOR-35 803.382
2446785.859 310717.156 795.9692 1.54 LOR-35 803.382
2446785.859 310717.156 795.79536 2.17 LOR-35 803.382
2446785.859 310717.156 795.62808 3.42 LOR-35 803.382
2446785.859 310717.156 795.52968 7.26 LOR-35 803.382
2446785.859 310717.156 795.43128 3.15 LOR-35 803.382
2446785.859 310717.156 795.26728 1.7 LOR-35 803.382
2446785.859 310717.156 795.10328 1.35 LOR-35 803.382
2446785.859 310717.156 795.0016 1.3 LOR-35 803.382
2446785.859 310717.156 794.8376 18.98 LOR-35 803.382
2446785.859 310717.156 794.7392 25.37 LOR-35 803.382
2446785.859 310717.156 794.6408 18.35 LOR-35 803.382
2446785.859 310717.156 794.53912 13.53 LOR-35 803.382
2446785.859 310717.156 794.37512 14.2 LOR-35 803.382
2446785.859 310717.156 794.24064 12.54 LOR-35 803.382
2446785.859 310717.156 794.10288 7 LOR-35 803.382
2446785.859 310717.156 793.93888 8.65 LOR-35 803.382
2446785.859 310717.156 793.74536 4.16 LOR-35 803.382
2446785.859 310717.156 793.58136 3.96 LOR-35 803.382
2446785.859 310717.156 793.48296 11.83 LOR-35 803.382
2446785.859 310717.156 793.31568 21.24 LOR-35 803.382
2446785.859 310717.156 793.214 20.15 LOR-35 803.382
2446785.859 310717.156 793.04672 14.36 LOR-35 803.382
2446785.859 310717.156 792.94832 13.6 LOR-35 803.382
2446785.859 310717.156 792.77776 6.46 LOR-35 803.382
2446785.859 310717.156 792.67936 11.59 LOR-35 803.382
2446785.859 310717.156 792.51208 6.99 LOR-35 803.382
2446785.859 310717.156 792.3448 8.84 LOR-35 803.382
2446785.859 310717.156 792.24312 13.91 LOR-35 803.382
2446785.859 310717.156 792.07584 17.58 LOR-35 803.382
2446785.859 310717.156 791.97744 20.32 LOR-35 803.382
2446785.859 310717.156 791.81016 12.49 LOR-35 803.382
2446785.859 310717.156 791.71176 7.32 LOR-35 803.382
2446785.859 310717.156 791.61336 8.1 LOR-35 803.382
2446785.859 310717.156 791.4428 18.26 LOR-35 803.382
2446785.859 310717.156 791.27224 6.55 LOR-35 803.382
2446785.859 310717.156 791.14432 5.12 LOR-35 803.382
2446785.859 310717.156 790.99344 2.66 LOR-35 803.382
2446785.859 310717.156 790.8032 7.15 LOR-35 803.382
2446785.859 310717.156 790.6392 10.33 LOR-35 803.382
2446785.859 310717.156 790.48176 9.32 LOR-35 803.382
2446785.859 310717.156 790.38336 10.03 LOR-35 803.382
2446785.859 310717.156 790.22592 9.4 LOR-35 803.382
2446785.859 310717.156 790.06848 10.53 LOR-35 803.382
2446785.859 310717.156 789.97008 12.62 LOR-35 803.382
2446785.859 310717.156 789.87168 17.52 LOR-35 803.382
2446785.859 310717.156 789.70768 20.17 LOR-35 803.382
2446785.859 310717.156 789.606 17.72 LOR-35 803.382
2446785.859 310717.156 789.50432 17.71 LOR-35 803.382
2446785.859 310717.156 789.33048 14.92 LOR-35 803.382
2446785.859 310717.156 789.22552 16.27 LOR-35 803.382
2446785.859 310717.156 789.05168 21.47 LOR-35 803.382
```

```
2446785.859 310717.156 788.88112 20.58 LOR-35 803.382
2446785.859 310717.156 788.77944 18.69 LOR-35 803.382
2446785.859 310717.156 788.63512 16.17 LOR-35 803.382
2446785.859 310717.156 788.46128 13.78 LOR-35 803.382
2446785.859 310717.156 788.34976 9.26 LOR-35 803.382
2446785.859 310717.156 788.25136 7.57 LOR-35 803.382
2446785.859 310717.156 788.10704 11.34 LOR-35 803.382
2446785.859 310717.156 788.00864 13.82 LOR-35 803.382
2446785.859 310717.156 787.82496 13.78 LOR-35 803.382
2446785.859 310717.156 787.64784 15.83 LOR-35 803.382
2446785.859 310717.156 787.52976 10.09 LOR-35 803.382
2446785.859 310717.156 787.24112 9.29 LOR-35 803.382
2446785.859 310717.156 786.90656 9.55 LOR-35 803.382
2446785.859 310717.156 786.77864 14.1 LOR-35 803.382
2446785.859 310717.156 786.60808 11.86 LOR-35 803.382
2446785.859 310717.156 786.43096 11.75 LOR-35 803.382
2446785.859 310717.156 786.326 13.57 LOR-35 803.382
2446785.859 310717.156 786.14232 19.01 LOR-35 803.382
2446785.859 310717.156 785.95864 22.27 LOR-35 803.382
2446785.859 310717.156 785.84384 22.26 LOR-35 803.382
2446785.859 310717.156 785.72904 24 LOR-35 803.382
2446785.859 310717.156 785.53224 23.03 LOR-35 803.382
2446785.859 310717.156 785.424 24.97 LOR-35 803.382
2446785.859 310717.156 785.27312 21.36 LOR-35 803.382
2446785.859 310717.156 785.07632 16.27 LOR-35 803.382
2446785.859 310717.156 784.96152 24.51 LOR-35 803.382
2446785.859 310717.156 784.76144 31.1 LOR-35 803.382
2446785.859 310717.156 784.64336 13.63 LOR-35 803.382
2446785.859 310717.156 784.52528 7.3 LOR-35 803.382
2446785.859 310717.156 784.3252 6.38 LOR-35 803.382
2446785.859 310717.156 784.13168 4.65 LOR-35 803.382
2446785.859 310717.156 784.01032 4.47 LOR-35 803.382
2446785.859 310717.156 783.8168 5.62 LOR-35 803.382
2446785.859 310717.156 783.67248 10.42 LOR-35 803.382
2446785.859 310717.156 783.51504 10.11 LOR-35 803.382
2446785.859 310717.156 783.31168 13.47 LOR-35 803.382
2446785.859 310717.156 783.18704 11.91 LOR-35 803.382
2446785.859 310717.156 782.9804 8.14 LOR-35 803.382
2446785.859 310717.156 782.77376 17.12 LOR-35 803.382
2446785.859 310717.156 782.6524 22.36 LOR-35 803.382
2446785.859 310717.156 782.48512 7 LOR-35 803.382
2446785.859 310717.156 782.29816 5.9 LOR-35 803.382
2446785.859 310717.156 782.1276 15.11 LOR-35 803.382
2446785.859 310717.156 782.02592 11.6 LOR-35 803.382
2446785.859 310717.156 781.85864 9.18 LOR-35 803.382
2446785.859 310717.156 781.75696 12.97 LOR-35 803.382
2446785.859 310717.156 781.58968 16.05 LOR-35 803.382
2446785.859 310717.156 781.42568 17.12 LOR-35 803.382
2446785.859 310717.156 781.324 16.89 LOR-35 803.382
2446785.859 310717.156 781.2256 17.87 LOR-35 803.382
2446785.859 310717.156 781.05504 28.11 LOR-35 803.382
2446785.859 310717.156 780.95336 23.91 LOR-35 803.382
2446785.859 310717.156 780.7828 24.22 LOR-35 803.382
2446785.859 310717.156 780.6352 19.7 LOR-35 803.382
2446785.859 310717.156 780.51056 22.25 LOR-35 803.382
2446785.859 310717.156 780.41216 14.96 LOR-35 803.382
2446785.859 310717.156 780.25144 6.87 LOR-35 803.382
2446785.859 310717.156 780.14976 17.81 LOR-35 803.382
2446785.859 310717.156 779.98576 18.66 LOR-35 803.382
2446785.859 310717.156 779.88408 15.66 LOR-35 803.382
2446785.859 310717.156 779.72008 26.09 LOR-35 803.382
2446785.859 310717.156 779.6184 31.17 LOR-35 803.382
2446785.859 310717.156 779.4544 14.83 LOR-35 803.382
2446785.859 310717.156 779.35272 6.21 LOR-35 803.382
2446785.859 310717.156 779.18544 13.77 LOR-35 803.382
2446785.859 310717.156 779.08376 24.95 LOR-35 803.382
2446785.859 310717.156 778.98208 30.3 LOR-35 803.382
2446785.859 310717.156 778.91648 46.63 LOR-35 803.382
2446785.859 310717.156 778.8148 43.86 LOR-35 803.382
2446785.859 310717.156 778.71312 34.36 LOR-35 803.382
2446785.859 310717.156 778.54256 25.44 LOR-35 803.382
2446785.859 310717.156 778.44088 18.11 LOR-35 803.382
2446785.859 310717.156 778.2736 13.39 LOR-35 803.382
2446785.859 310717.156 778.17192 13.06 LOR-35 803.382
2446785.859 310717.156 778.00136 19.41 LOR-35 803.382
2446785.859 310717.156 777.83736 14.48 LOR-35 803.382
2446785.859 310717.156 777.7324 11.14 LOR-35 803.382
2446785.859 310717.156 777.56184 14.03 LOR-35 803.382
2446785.859 310717.156 777.39128 21.89 LOR-35 803.382
2446785.859 310717.156 777.2404 22.29 LOR-35 803.382
2446785.859 310717.156 777.08624 24.09 LOR-35 803.382
2446785.859 310717.156 776.98784 23.67 LOR-35 803.382
2446785.859 310717.156 776.82384 16.48 LOR-35 803.382
2446785.859 310717.156 776.65656 9.95 LOR-35 803.382
2446785.859 310717.156 776.55816 5.57 LOR-35 803.382
2446785.859 310717.156 776.39088 5.76 LOR-35 803.382
2446785.859 310717.156 776.29248 10.1 LOR-35 803.382
2446785.859 310717.156 776.1252 5.16 LOR-35 803.382
2446785.859 310717.156 775.96448 5.18 LOR-35 803.382
2446785.859 310717.156 775.8628 1.9 LOR-35 803.382
2446785.859 310717.156 775.7316 1.08 LOR-35 803.382
2446785.859 310717.156 775.59384 0.36 LOR-35 803.382
2446785.859 310717.156 775.53152 0.33 LOR-35 803.382
2447321.025 310672.495 808.299 0.6 WIL-01 808.299
2447321.025 310672.495 808.26292 0.17 WIL-01 808.299
2447321.025 310672.495 808.22028 0.15 WIL-01 808.299
2447321.025 310672.495 808.15468 0.09 WIL-01 808.299
2447321.025 310672.495 808.02348 0.05 WIL-01 808.299
2447321.025 310672.495 808.01364 0 WIL-01 808.299
2447321.025 310672.495 807.90868 0.18 WIL-01 808.299
2447321.025 310672.495 807.8398 0.03 WIL-01 808.299
2447243.61 310590.84 803.208 0.88 WIL-03 803.208
```

2447243.61 310590.84 803.05384 22.24 WIL-03 803.208
2447243.61 310590.84 803.044 37.14 WIL-03 803.208
2447243.61 310590.84 802.94232 6.09 WIL-03 803.208
2447243.61 310590.84 802.80128 9.73 WIL-03 803.208
2447243.61 310590.84 802.68648 2.99 WIL-03 803.208
2447243.61 310590.84 802.5684 1.57 WIL-03 803.208
2447243.61 310590.84 802.46672 0.94 WIL-03 803.208
2447243.61 310590.84 802.34536 0.92 WIL-03 803.208
2447243.61 310590.84 802.24368 0.59 WIL-03 803.208
2447243.61 310590.84 802.13872 0.75 WIL-03 803.208
2447243.61 310590.84 802.03704 0.58 WIL-03 803.208
2447243.61 310590.84 801.91896 0.71 WIL-03 803.208
2447243.61 310590.84 801.7812 0.7 WIL-03 803.208
2447243.61 310590.84 801.6172 0.68 WIL-03 803.208
2447243.61 310590.84 801.51552 0.71 WIL-03 803.208
2447243.61 310590.84 801.40072 0.62 WIL-03 803.208
2447243.61 310590.84 801.33184 0.73 WIL-03 803.208
2447243.61 310590.84 803.208 0.52 WIL-03A 803.208
2447243.61 310590.84 803.09976 0.55 WIL-03A 803.208
2447243.61 310590.84 802.97184 0.63 WIL-03A 803.208
2447243.61 310590.84 802.86032 0.68 WIL-03A 803.208
2447243.61 310590.84 802.76192 0.64 WIL-03A 803.208
2447243.61 310590.84 802.66024 0.36 WIL-03A 803.208
2447243.61 310590.84 802.55856 0.44 WIL-03A 803.208
2447243.61 310590.84 802.4536 0.5 WIL-03A 803.208
2447243.61 310590.84 802.34864 0.49 WIL-03A 803.208
2447243.61 310590.84 802.25024 0.47 WIL-03A 803.208
2447243.61 310590.84 802.10264 0.54 WIL-03A 803.208
2447243.61 310590.84 801.98456 0.58 WIL-03A 803.208
2447243.61 310590.84 801.88616 0.52 WIL-03A 803.208
2447243.61 310590.84 801.78448 0.59 WIL-03A 803.208
2447243.61 310590.84 801.64016 0.54 WIL-03A 803.208
2447243.61 310590.84 801.52208 0.54 WIL-03A 803.208
2447243.61 310590.84 801.37776 0.54 WIL-03A 803.208
2447243.61 310590.84 801.23016 0.54 WIL-03A 803.208
2447243.61 310590.84 801.20064 0.44 WIL-03A 803.208
2447202.826 310536.216 800.411 0.17 WIL-04 800.411
2447202.826 310536.216 800.30604 0.71 WIL-04 800.411
2447202.826 310536.216 800.17156 0.61 WIL-04 800.411
2447202.826 310536.216 800.06004 0.68 WIL-04 800.411
2447202.826 310536.216 799.94524 0.63 WIL-04 800.411
2447202.826 310536.216 799.83372 0.46 WIL-04 800.411
2447202.826 310536.216 799.69924 0.29 WIL-04 800.411
2447202.826 310536.216 799.58444 0.25 WIL-04 800.411
2447202.826 310536.216 799.4762 0.29 WIL-04 800.411
2447202.826 310536.216 799.35812 0.26 WIL-04 800.411
2447202.826 310536.216 799.2138 0.2 WIL-04 800.411
2447202.826 310536.216 799.09572 0.28 WIL-04 800.411
2447202.826 310536.216 798.97108 0.28 WIL-04 800.411
2447202.826 310536.216 798.84644 0.2 WIL-04 800.411
2447202.826 310536.216 798.7218 0.22 WIL-04 800.411
2447202.826 310536.216 798.57748 0.22 WIL-04 800.411
2447202.826 310536.216 798.45284 0.27 WIL-04 800.411
2447202.826 310536.216 798.3282 0.25 WIL-04 800.411
2447202.826 310536.216 798.20684 0.25 WIL-04 800.411
2447202.826 310536.216 798.08548 0.18 WIL-04 800.411
2447202.826 310536.216 797.96412 -0.01 WIL-04 800.411
2447202.826 310536.216 797.82308 0.13 WIL-04 800.411
2447202.826 310536.216 797.68532 0.03 WIL-04 800.411
2447202.826 310536.216 797.53772 0.11 WIL-04 800.411
2447202.826 310536.216 797.4098 0.12 WIL-04 800.411
2447202.826 310536.216 797.28516 0.06 WIL-04 800.411
2447202.826 310536.216 797.16052 0.08 WIL-04 800.411
2447202.826 310536.216 797.02932 0.1 WIL-04 800.411
2447202.826 310536.216 796.9014 -0.04 WIL-04 800.411
2447202.826 310536.216 796.7866 0.09 WIL-04 800.411
2447202.826 310536.216 796.76036 -0.04 WIL-04 800.411
2447138.389 310453.977 796.078 0.48 WIL-05 796.078
2447138.389 310453.977 795.95664 0.62 WIL-05 796.078
2447138.389 310453.977 795.84512 1.05 WIL-05 796.078
2447138.389 310453.977 795.72376 1.08 WIL-05 796.078
2447138.389 310453.977 795.57616 0.62 WIL-05 796.078
2447138.389 310453.977 795.422 1.26 WIL-05 796.078
2447138.389 310453.977 795.3236 0.49 WIL-05 796.078
2447138.389 310453.977 795.21208 0.47 WIL-05 796.078
2447138.389 310453.977 795.094 0.49 WIL-05 796.078
2447138.389 310453.977 794.97264 0.62 WIL-05 796.078
2447138.389 310453.977 794.82832 1.31 WIL-05 796.078
2447138.389 310453.977 794.766 0.41 WIL-05 796.078
2447138.389 310453.977 794.63808 0.49 WIL-05 796.078
2447138.389 310453.977 794.52328 2.2 WIL-05 796.078
2447138.389 310453.977 794.38552 0.43 WIL-05 796.078
2447138.389 310453.977 794.27728 0.42 WIL-05 796.078
2447138.389 310453.977 794.13952 1.52 WIL-05 796.078
2447138.389 310453.977 794.03128 1.93 WIL-05 796.078
2447138.389 310453.977 793.9296 1.93 WIL-05 796.078
2447138.389 310453.977 793.81808 0.5 WIL-05 796.078
2447138.389 310453.977 793.70984 0.43 WIL-05 796.078
2447138.389 310453.977 793.59832 0.42 WIL-05 796.078
2447138.389 310453.977 793.49664 0.44 WIL-05 796.078
2447138.389 310453.977 793.39168 0.57 WIL-05 796.078
2447138.389 310453.977 793.26048 1.04 WIL-05 796.078
2447138.389 310453.977 793.1588 0.51 WIL-05 796.078
2447138.389 310453.977 793.04072 0.53 WIL-05 796.078
2447138.389 310453.977 792.94232 0.39 WIL-05 796.078
2447138.389 310453.977 792.83736 0.4 WIL-05 796.078
2447138.389 310453.977 792.70944 0.45 WIL-05 796.078
2447138.389 310453.977 792.69304 0.35 WIL-05 796.078
2447138.389 310453.977 792.63728 0.19 WIL-05 796.078
2447138.389 310453.977 792.48968 0.43 WIL-05 796.078
2447138.389 310453.977 792.33224 0.97 WIL-05 796.078
2447138.389 310453.977 792.18792 1.33 WIL-05 796.078

2447138.389 310453.977 792.08624 0.62 WIL-05 796.078
2447138.389 310453.977 791.98128 0.44 WIL-05 796.078
2447138.389 310453.977 791.83696 0.56 WIL-05 796.078
2447138.389 310453.977 791.732 0.41 WIL-05 796.078
2447138.389 310453.977 791.58768 0.49 WIL-05 796.078
2447138.389 310453.977 791.56144 0.18 WIL-05 796.078
2447138.389 310453.977 791.45648 0.44 WIL-05 796.078
2447138.389 310453.977 791.32528 0.46 WIL-05 796.078
2447138.389 310453.977 791.16456 0.43 WIL-05 796.078
2447138.389 310453.977 791.15144 0.05 WIL-05 796.078
2447138.389 310453.977 791.02352 0.35 WIL-05 796.078
2447138.389 310453.977 790.8956 0.25 WIL-05 796.078
2447138.389 310453.977 790.7808 0.73 WIL-05 796.078
2447138.389 310453.977 790.6496 0.78 WIL-05 796.078
2447138.389 310453.977 790.52824 0.56 WIL-05 796.078
2447138.389 310453.977 790.38064 1.1 WIL-05 796.078
2447138.389 310453.977 790.27896 0.09 WIL-05 796.078
2447138.389 310453.977 790.18056 0.2 WIL-05 796.078
2447138.389 310453.977 790.04936 0.75 WIL-05 796.078
2447138.389 310453.977 789.9444 0.1 WIL-05 796.078
2447138.389 310453.977 789.7968 0.12 WIL-05 796.078
2447138.389 310453.977 789.68528 0.32 WIL-05 796.078
2447138.389 310453.977 789.56064 0.1 WIL-05 796.078
2447138.389 310453.977 789.55736 1.15 WIL-05 796.078
2447138.389 310453.977 789.49832 0.03 WIL-05 796.078
2447138.389 310453.977 789.38024 1.1 WIL-05 796.078
2447138.389 310453.977 789.28184 0.05 WIL-05 796.078
2447138.389 310453.977 789.15392 0.33 WIL-05 796.078
2447138.389 310453.977 789.03256 -0.01 WIL-05 796.078
2447138.389 310453.977 788.91776 0.7 WIL-05 796.078
2447138.389 310453.977 788.78 1.35 WIL-05 796.078
2447138.389 310453.977 788.64224 0.87 WIL-05 796.078
2447138.389 310453.977 788.55696 1.21 WIL-05 796.078
2447138.389 310453.977 788.54056 0 WIL-05 796.078
2447138.389 310453.977 788.51104 0.1 WIL-05 796.078
2447138.389 310453.977 788.37984 0.24 WIL-05 796.078
2447138.389 310453.977 788.26504 0.08 WIL-05 796.078
2447138.389 310453.977 788.13712 -0.73 WIL-05 796.078
2447138.389 310453.977 788.02888 0.66 WIL-05 796.078
2447138.389 310453.977 787.91736 0.43 WIL-05 796.078
2447138.389 310453.977 787.77304 0.44 WIL-05 796.078
2447138.389 310453.977 787.65168 1.32 WIL-05 796.078
2447138.389 310453.977 787.54672 1.18 WIL-05 796.078
2447138.389 310453.977 787.43848 1.24 WIL-05 796.078
2447138.389 310453.977 787.33024 0.18 WIL-05 796.078
2447138.389 310453.977 787.19904 1.76 WIL-05 796.078
2447138.389 310453.977 787.09408 0.26 WIL-05 796.078
2447138.389 310453.977 786.98256 1.47 WIL-05 796.078
2447138.389 310453.977 786.85136 -0.28 WIL-05 796.078
2447138.389 310453.977 786.68736 0.08 WIL-05 796.078
2447138.389 310453.977 786.67096 1.77 WIL-05 796.078
2447138.389 310453.977 786.62832 0.03 WIL-05 796.078
2447138.389 310453.977 786.61192 1.91 WIL-05 796.078
2447138.389 310453.977 786.5824 0.05 WIL-05 796.078
2447138.389 310453.977 786.52664 1.44 WIL-05 796.078
2447138.389 310453.977 786.51352 0 WIL-05 796.078
2447138.389 310453.977 786.4676 0.12 WIL-05 796.078
2447138.389 310453.977 786.31672 1.24 WIL-05 796.078
2447138.389 310453.977 786.21504 1.49 WIL-05 796.078
2447138.389 310453.977 786.1068 1.39 WIL-05 796.078
2447138.389 310453.977 786.0084 1.57 WIL-05 796.078
2447138.389 310453.977 785.90016 1.19 WIL-05 796.078
2447138.389 310453.977 785.77224 0.14 WIL-05 796.078
2447138.389 310453.977 785.66072 1.23 WIL-05 796.078
2447138.389 310453.977 785.55904 1.62 WIL-05 796.078
2447138.389 310453.977 785.45736 1.32 WIL-05 796.078
2447138.389 310453.977 785.37864 0.01 WIL-05 796.078
2447138.389 310453.977 785.28024 1.02 WIL-05 796.078
2447138.389 310453.977 785.172 0.75 WIL-05 796.078
2447138.389 310453.977 785.0408 0.35 WIL-05 796.078
2447138.389 310453.977 784.9096 0.69 WIL-05 796.078
2447138.389 310453.977 784.7784 0.88 WIL-05 796.078
2447138.389 310453.977 784.62096 1.04 WIL-05 796.078
2447138.389 310453.977 784.4996 0.13 WIL-05 796.078
2447138.389 310453.977 784.35856 0.98 WIL-05 796.078
2447138.389 310453.977 784.22408 1.82 WIL-05 796.078
2447138.389 310453.977 784.09616 1.79 WIL-05 796.078
2447138.389 310453.977 783.9748 2.27 WIL-05 796.078
2447138.389 310453.977 783.82392 0.38 WIL-05 796.078
2447138.389 310453.977 783.7124 0.36 WIL-05 796.078
2447138.389 310453.977 783.60088 1.9 WIL-05 796.078
2447138.389 310453.977 783.49264 1.25 WIL-05 796.078
2447138.389 310453.977 783.32864 1.04 WIL-05 796.078
2447138.389 310453.977 783.19744 6.71 WIL-05 796.078
2447138.389 310453.977 783.12528 7.02 WIL-05 796.078
2447138.389 310453.977 783.01376 2.95 WIL-05 796.078
2447138.389 310453.977 782.86288 2.25 WIL-05 796.078
2447138.389 310453.977 782.75792 1.13 WIL-05 796.078
2447138.389 310453.977 782.65952 2.48 WIL-05 796.078
2447138.389 310453.977 782.53488 1.06 WIL-05 796.078
2447138.389 310453.977 782.40696 1.69 WIL-05 796.078
2447138.389 310453.977 782.28888 0.95 WIL-05 796.078
2447138.389 310453.977 782.2856 0.14 WIL-05 796.078
2447138.389 310453.977 782.1544 1.7 WIL-05 796.078
2447138.389 310453.977 782.02648 7.23 WIL-05 796.078
2447138.389 310453.977 781.88544 37.08 WIL-05 796.078
2447138.389 310453.977 781.7608 128.13 WIL-05 796.078
2447138.389 310453.977 781.64272 1.52 WIL-05 796.078
2447138.389 310453.977 781.53776 1.63 WIL-05 796.078
2447138.389 310453.977 781.43936 225.65 WIL-05 796.078
2447138.389 310453.977 781.3344 268.54 WIL-05 796.078
2447138.389 310453.977 781.18352 1.34 WIL-05 796.078

2447138.389 310453.977 781.18024 363.3 WIL-05 796.078
2447138.389 310453.977 781.072 2.23 WIL-05 796.078
2447138.389 310453.977 780.96704 372.24 WIL-05 796.078
2447138.389 310453.977 780.8588 5.94 WIL-05 796.078
2447138.389 310453.977 780.75712 4.8 WIL-05 796.078
2447138.389 310453.977 780.6456 2.73 WIL-05 796.078
2447138.389 310453.977 780.59312 396.42 WIL-05 796.078
2447138.389 310453.977 780.57344 1.83 WIL-05 796.078
2447138.389 310453.977 780.47176 368.04 WIL-05 796.078
2447138.389 310453.977 780.46848 3.61 WIL-05 796.078
2447138.389 310453.977 780.42584 210.74 WIL-05 796.078
2447138.389 310453.977 780.32416 50.64 WIL-05 796.078
2447138.389 310453.977 780.2028 29.23 WIL-05 796.078
2447138.389 310453.977 780.09784 9.77 WIL-05 796.078
2447138.389 310453.977 779.99616 47.01 WIL-05 796.078
2447138.389 310453.977 779.87152 11.03 WIL-05 796.078
2447138.389 310453.977 779.74032 5.92 WIL-05 796.078
2447138.389 310453.977 779.61568 3.39 WIL-05 796.078
2447138.389 310453.977 779.47464 10.32 WIL-05 796.078
2447138.389 310453.977 779.36968 9.2 WIL-05 796.078
2447138.389 310453.977 779.268 1.08 WIL-05 796.078
2447138.389 310453.977 779.15648 1.63 WIL-05 796.078
2447138.389 310453.977 779.03184 2.98 WIL-05 796.078
2447138.389 310453.977 778.91376 2.66 WIL-05 796.078
2447138.389 310453.977 778.81536 2.1 WIL-05 796.078
2447138.389 310453.977 778.65464 4.53 WIL-05 796.078
2447138.389 310453.977 778.47424 2.71 WIL-05 796.078
2447138.389 310453.977 778.32336 2.59 WIL-05 796.078
2447138.389 310453.977 778.17248 1.84 WIL-05 796.078
2447138.389 310453.977 778.01176 5.73 WIL-05 796.078
2447138.389 310453.977 777.91008 3.9 WIL-05 796.078
2447138.389 310453.977 777.74936 9.74 WIL-05 796.078
2447138.389 310453.977 777.5952 1.62 WIL-05 796.078
2447138.389 310453.977 777.4476 1.19 WIL-05 796.078
2447138.389 310453.977 777.30984 0.75 WIL-05 796.078
2447138.389 310453.977 777.21144 1.24 WIL-05 796.078
2447138.389 310453.977 777.11304 1.18 WIL-05 796.078
2447138.389 310453.977 777.1032 0.98 WIL-05 796.078
2447142.591 310378.516 792.476 0.53 WIL-06 792.476
2447142.591 310378.516 792.37104 0.28 WIL-06 792.476
2447142.591 310378.516 792.26608 1.57 WIL-06 792.476
2447142.591 310378.516 792.12504 0.33 WIL-06 792.476
2447142.591 310378.516 792.02336 1.28 WIL-06 792.476
2447142.591 310378.516 791.88888 1.42 WIL-06 792.476
2447142.591 310378.516 791.7872 0.46 WIL-06 792.476
2447142.591 310378.516 791.65272 0.35 WIL-06 792.476
2447142.591 310378.516 791.5412 1.34 WIL-06 792.476
2447142.591 310378.516 791.41 1.37 WIL-06 792.476
2447142.591 310378.516 791.27224 1.29 WIL-06 792.476
2447142.591 310378.516 791.14104 1.01 WIL-06 792.476
2447142.591 310378.516 790.98032 1.45 WIL-06 792.476
2447142.591 310378.516 790.85568 1.3 WIL-06 792.476
2447142.591 310378.516 790.7212 1.3 WIL-06 792.476
2447142.591 310378.516 790.58344 1.33 WIL-06 792.476
2447142.591 310378.516 790.4588 1.39 WIL-06 792.476
2447142.591 310378.516 790.35712 1.47 WIL-06 792.476
2447142.591 310378.516 790.23904 1.49 WIL-06 792.476
2447142.591 310378.516 790.14064 1.37 WIL-06 792.476
2447142.591 310378.516 790.01272 1.41 WIL-06 792.476
2447142.591 310378.516 789.90448 1.22 WIL-06 792.476
2447142.591 310378.516 789.80608 1.19 WIL-06 792.476
2447142.591 310378.516 789.6552 1.31 WIL-06 792.476
2447142.591 310378.516 789.51416 1.39 WIL-06 792.476
2447142.591 310378.516 789.3928 1.05 WIL-06 792.476
2447142.591 310378.516 789.33048 1.12 WIL-06 792.476
2447105.008 310337.706 790.16 0.02 WIL-07 790.16
2447105.008 310337.706 790.10752 2.37 WIL-07 790.16
2447105.008 310337.706 789.9632 1.78 WIL-07 790.16
2447105.008 310337.706 789.86152 0.51 WIL-07 790.16
2447105.008 310337.706 789.7172 0.38 WIL-07 790.16
2447105.008 310337.706 789.6188 0.21 WIL-07 790.16
2447105.008 310337.706 789.51712 0.29 WIL-07 790.16
2447105.008 310337.706 789.40232 0.25 WIL-07 790.16
2447105.008 310337.706 789.28424 0.35 WIL-07 790.16
2447105.008 310337.706 789.15304 0.4 WIL-07 790.16
2447105.008 310337.706 789.0448 0.33 WIL-07 790.16
2447105.008 310337.706 788.9136 0.41 WIL-07 790.16
2447105.008 310337.706 788.79552 0.39 WIL-07 790.16
2447105.008 310337.706 788.67744 0.28 WIL-07 790.16
2447105.008 310337.706 788.56592 0.6 WIL-07 790.16
2447105.008 310337.706 788.44456 0.6 WIL-07 790.16
2447105.008 310337.706 788.3232 0.55 WIL-07 790.16
2447105.008 310337.706 788.2248 0.27 WIL-07 790.16
2447105.008 310337.706 788.1264 0.47 WIL-07 790.16
2447105.008 310337.706 788.02144 0.63 WIL-07 790.16
2447105.008 310337.706 787.90336 0.65 WIL-07 790.16
2447105.008 310337.706 787.79512 0.33 WIL-07 790.16
2447105.008 310337.706 787.6836 0.31 WIL-07 790.16
2447105.008 310337.706 787.58192 0.46 WIL-07 790.16
2447105.008 310337.706 787.49664 0.28 WIL-07 790.16
2447044.157 310311.125 791.066 -0.2 WIL-08 791.066
2447044.157 310311.125 790.96104 0.95 WIL-08 791.066
2447044.157 310311.125 790.82656 0.59 WIL-08 791.066
2447044.157 310311.125 790.72488 0.37 WIL-08 791.066
2447044.157 310311.125 790.61664 0.19 WIL-08 791.066
2447044.157 310311.125 790.49528 0.44 WIL-08 791.066
2447044.157 310311.125 790.37392 0.49 WIL-08 791.066
2447044.157 310311.125 790.2624 0.33 WIL-08 791.066
2447044.157 310311.125 790.12464 0.08 WIL-08 791.066
2447044.157 310311.125 789.99344 0.17 WIL-08 791.066
2447044.157 310311.125 789.8524 0.03 WIL-08 791.066
2447044.157 310311.125 789.754 0.1 WIL-08 791.066

```
2447044.157 310311.125 789.61624 0.03 WIL-08 791.066
2447044.157 310311.125 789.49488 0.14 WIL-08 791.066
2447044.157 310311.125 789.3932 0.39 WIL-08 791.066
2447044.157 310311.125 789.29152 -0.48 WIL-08 791.066
2447044.157 310311.125 789.18328 0.5 WIL-08 791.066
2447044.157 310311.125 789.05208 0.38 WIL-08 791.066
2447044.157 310311.125 788.94712 0.4 WIL-08 791.066
2447044.157 310311.125 788.82904 0.06 WIL-08 791.066
2447044.157 310311.125 788.70112 0.08 WIL-08 791.066
2447044.157 310311.125 788.56008 -0.54 WIL-08 791.066
2447044.157 310311.125 788.41904 0.26 WIL-08 791.066
2447044.157 310311.125 788.30424 0.14 WIL-08 791.066
2447044.157 310311.125 788.20584 0.16 WIL-08 791.066
2447044.157 310311.125 788.07136 0.22 WIL-08 791.066
2447044.157 310311.125 787.94344 0.15 WIL-08 791.066
2447044.157 310311.125 787.83192 0.13 WIL-08 791.066
2447044.157 310311.125 787.73352 0.13 WIL-08 791.066
2447044.157 310311.125 787.622 0.2 WIL-08 791.066
2447044.157 310311.125 787.49736 0.11 WIL-08 791.066
2447044.157 310311.125 787.39568 0.13 WIL-08 791.066
2447044.157 310311.125 787.24152 -0.77 WIL-08 791.066
2447044.157 310311.125 787.11032 0.05 WIL-08 791.066
2447044.157 310311.125 786.97912 0.07 WIL-08 791.066
2447044.157 310311.125 786.8512 0 WIL-08 791.066
2447044.157 310311.125 786.72328 0.09 WIL-08 791.066
2447044.157 310311.125 786.59864 -0.01 WIL-08 791.066
2447044.157 310311.125 786.48384 0.09 WIL-08 791.066
2447044.157 310311.125 786.30672 0.09 WIL-08 791.066
2447044.157 310311.125 786.15256 -0.01 WIL-08 791.066
2447044.157 310311.125 786.04432 0.04 WIL-08 791.066
2447044.157 310311.125 785.91312 -0.1 WIL-08 791.066
2447044.157 310311.125 785.78848 0.06 WIL-08 791.066
2447044.157 310311.125 785.6868 0.05 WIL-08 791.066
2447044.157 310311.125 785.58512 0.06 WIL-08 791.066
2447044.157 310311.125 785.48672 0.16 WIL-08 791.066
2447044.157 310311.125 785.38176 0.14 WIL-08 791.066
2447044.157 310311.125 785.26368 0.11 WIL-08 791.066
2447044.157 310311.125 785.162 0.15 WIL-08 791.066
2447044.157 310311.125 785.0636 0.13 WIL-08 791.066
2447044.157 310311.125 784.96192 0.22 WIL-08 791.066
2447044.157 310311.125 784.84056 0.07 WIL-08 791.066
2447044.157 310311.125 784.73888 0.14 WIL-08 791.066
2447044.157 310311.125 784.6372 -0.14 WIL-08 791.066
2447044.157 310311.125 784.53224 -0.36 WIL-08 791.066
2447044.157 310311.125 784.41416 -0.63 WIL-08 791.066
2447044.157 310311.125 784.29608 -0.93 WIL-08 791.066
2447044.157 310311.125 784.1944 -0.23 WIL-08 791.066
2447044.157 310311.125 784.08944 -0.4 WIL-08 791.066
2447044.157 310311.125 783.95824 -0.2 WIL-08 791.066
2447044.157 310311.125 783.82048 -0.04 WIL-08 791.066
2447044.157 310311.125 783.66632 -0.14 WIL-08 791.066
2447044.157 310311.125 783.51216 -0.37 WIL-08 791.066
2447044.157 310311.125 783.38424 -0.07 WIL-08 791.066
2447044.157 310311.125 783.23336 -0.05 WIL-08 791.066
2447044.157 310311.125 783.10872 0.19 WIL-08 791.066
2447044.157 310311.125 782.96112 0.28 WIL-08 791.066
2447044.157 310311.125 782.81024 0.01 WIL-08 791.066
2447044.157 310311.125 782.68888 -0.24 WIL-08 791.066
2447044.157 310311.125 782.56752 -0.48 WIL-08 791.066
2447044.157 310311.125 782.45928 -0.28 WIL-08 791.066
2447044.157 310311.125 782.3412 -0.45 WIL-08 791.066
2447044.157 310311.125 782.19032 -0.28 WIL-08 791.066
2447044.157 310311.125 782.06568 -0.31 WIL-08 791.066
2447044.157 310311.125 781.93776 -0.08 WIL-08 791.066
2447044.157 310311.125 781.80984 -0.12 WIL-08 791.066
2447044.157 310311.125 781.68192 -0.09 WIL-08 791.066
2447044.157 310311.125 781.55728 -0.41 WIL-08 791.066
2447044.157 310311.125 781.4064 -0.34 WIL-08 791.066
2447044.157 310311.125 781.29488 -0.33 WIL-08 791.066
2447044.157 310311.125 781.18664 -0.36 WIL-08 791.066
2447044.157 310311.125 781.05872 -0.66 WIL-08 791.066
2447044.157 310311.125 780.93408 -0.18 WIL-08 791.066
2447044.157 310311.125 780.816 -0.15 WIL-08 791.066
2447044.157 310311.125 780.69464 -0.47 WIL-08 791.066
2447044.157 310311.125 780.57328 -0.46 WIL-08 791.066
2447044.157 310311.125 780.4552 -0.25 WIL-08 791.066
2447044.157 310311.125 780.31088 -0.49 WIL-08 791.066
2447044.157 310311.125 780.20592 0.01 WIL-08 791.066
2447044.157 310311.125 780.07144 -0.18 WIL-08 791.066
2447044.157 310311.125 779.98944 -0.24 WIL-08 791.066
2447006.457 310277.044 789.665 93.46 WIL-09 789.665
2447006.457 310277.044 789.65516 0.36 WIL-09 789.665
2447006.457 310277.044 789.5338 0.24 WIL-09 789.665
2447006.457 310277.044 789.46164 0.12 WIL-09 789.665
2447006.457 310277.044 789.34684 0.03 WIL-09 789.665
2447006.457 310277.044 789.15332 0.14 WIL-09 789.665
2447006.457 310277.044 789.03852 0.09 WIL-09 789.665
2447006.457 310277.044 788.88108 0.04 WIL-09 789.665
2447006.457 310277.044 788.7794 0.16 WIL-09 789.665
2447006.457 310277.044 788.67444 0 WIL-09 789.665
2447005.124 310274.81 790.778 0.15 WIL-09A 790.778
2447005.124 310274.81 790.67304 0.05 WIL-09A 790.778
2447005.124 310274.81 790.53856 -0.04 WIL-09A 790.778
2447005.124 310274.81 790.42376 0.19 WIL-09A 790.778
2447005.124 310274.81 790.32536 0 WIL-09A 790.778
2447005.124 310274.81 790.21056 0.12 WIL-09A 790.778
2447005.124 310274.81 790.08264 -0.01 WIL-09A 790.778
2447005.124 310274.81 789.958 -0.1 WIL-09A 790.778
2447005.124 310274.81 789.85632 0 WIL-09A 790.778
2447005.124 310274.81 789.7284 -0.06 WIL-09A 790.778
2447005.124 310274.81 789.60376 -0.06 WIL-09A 790.778
2447005.124 310274.81 789.45288 0.1 WIL-09A 790.778
```

```
2447005.124 310274.81 789.32496 0.07 WIL-09A 790.778
2447005.124 310274.81 789.21344 -0.01 WIL-09A 790.778
2447005.124 310274.81 789.09536 -0.09 WIL-09A 790.778
2447005.124 310274.81 788.98712 0.16 WIL-09A 790.778
2447005.124 310274.81 788.8756 0.04 WIL-09A 790.778
2447005.124 310274.81 788.7772 0.01 WIL-09A 790.778
2447005.124 310274.81 788.60992 0.05 WIL-09A 790.778
2447005.124 310274.81 788.482 -0.03 WIL-09A 790.778
2447005.124 310274.81 788.3508 -0.02 WIL-09A 790.778
2447005.124 310274.81 788.22288 0.1 WIL-09A 790.778
2447005.124 310274.81 788.072 0.03 WIL-09A 790.778
2447005.124 310274.81 787.96048 0.01 WIL-09A 790.778
2447005.124 310274.81 787.84896 -0.06 WIL-09A 790.778
2447005.124 310274.81 787.74072 -0.02 WIL-09A 790.778
2447005.124 310274.81 787.6292 -0.06 WIL-09A 790.778
2447005.124 310274.81 787.49472 -0.07 WIL-09A 790.778
2447005.124 310274.81 787.3832 0.01 WIL-09A 790.778
2447005.124 310274.81 787.27168 0.07 WIL-09A 790.778
2447005.124 310274.81 787.17 -0.07 WIL-09A 790.778
2447005.124 310274.81 787.06832 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.96008 -0.17 WIL-09A 790.778
2447005.124 310274.81 786.82232 -0.01 WIL-09A 790.778
2447005.124 310274.81 786.69112 -0.1 WIL-09A 790.778
2447005.124 310274.81 786.5632 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.43528 -0.03 WIL-09A 790.778
2447005.124 310274.81 786.30408 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.1696 -0.05 WIL-09A 790.778
2447005.124 310274.81 785.99576 0 WIL-09A 790.778
2447005.124 310274.81 785.85144 0.02 WIL-09A 790.778
2447005.124 310274.81 785.73992 0.02 WIL-09A 790.778
2447005.124 310274.81 785.54312 -0.13 WIL-09A 790.778
2447005.124 310274.81 785.42832 0.01 WIL-09A 790.778
2447005.124 310274.81 785.24136 -0.03 WIL-09A 790.778
2447005.124 310274.81 785.05768 -0.12 WIL-09A 790.778
2447005.124 310274.81 784.94616 -0.09 WIL-09A 790.778
2447005.124 310274.81 784.77888 0.02 WIL-09A 790.778
2447005.124 310274.81 784.64768 -0.1 WIL-09A 790.778
2447005.124 310274.81 784.546 -0.05 WIL-09A 790.778
2447005.124 310274.81 784.44104 -0.01 WIL-09A 790.778
2447005.124 310274.81 784.32624 0.01 WIL-09A 790.778
2447005.124 310274.81 784.20488 0.07 WIL-09A 790.778
2447005.124 310274.81 784.0868 -0.01 WIL-09A 790.778
2447005.124 310274.81 783.94576 0.06 WIL-09A 790.778
2447005.124 310274.81 783.7916 0 WIL-09A 790.778
2447005.124 310274.81 783.644 -0.12 WIL-09A 790.778
2447005.124 310274.81 783.51936 -0.43 WIL-09A 790.778
2447005.124 310274.81 783.36848 -0.44 WIL-09A 790.778
2447005.124 310274.81 783.22744 -0.41 WIL-09A 790.778
2447005.124 310274.81 783.08312 -0.49 WIL-09A 790.778
2447005.124 310274.81 782.9388 -0.55 WIL-09A 790.778
2447005.124 310274.81 782.80432 -0.5 WIL-09A 790.778
2447005.124 310274.81 782.6436 -0.55 WIL-09A 790.778
2447005.124 310274.81 782.5616 -0.46 WIL-09A 790.778
2446955.831 310215.752 788.605 0.56 WIL-10 788.605
2446955.831 310215.752 788.44428 -0.61 WIL-10 788.605
2446955.831 310215.752 788.31636 -0.3 WIL-10 788.605
2446955.831 310215.752 788.13596 -0.31 WIL-10 788.605
2446955.831 310215.752 788.01132 -0.4 WIL-10 788.605
2446955.831 310215.752 787.84076 -0.45 WIL-10 788.605
2446955.831 310215.752 787.69316 -0.52 WIL-10 788.605
2446955.831 310215.752 787.58164 -0.55 WIL-10 788.605
2446955.831 310215.752 787.457 -0.68 WIL-10 788.605
2446955.831 310215.752 787.3422 -0.48 WIL-10 788.605
2446955.831 310215.752 787.23724 -0.56 WIL-10 788.605
2446955.831 310215.752 787.07652 -0.33 WIL-10 788.605
2446955.831 310215.752 786.9322 -0.43 WIL-10 788.605
2446955.831 310215.752 786.8174 -0.57 WIL-10 788.605
2446955.831 310215.752 786.71572 -0.31 WIL-10 788.605
2446955.831 310215.752 786.59436 -0.44 WIL-10 788.605
2446955.831 310215.752 786.45332 -0.37 WIL-10 788.605
2446955.831 310215.752 786.34508 -0.45 WIL-10 788.605
2446955.831 310215.752 786.23028 -0.43 WIL-10 788.605
2446955.831 310215.752 786.0958 -0.39 WIL-10 788.605
2446955.831 310215.752 785.981 -0.4 WIL-10 788.605
2446955.831 310215.752 785.86948 -0.58 WIL-10 788.605
2446955.831 310215.752 785.7678 -0.39 WIL-10 788.605
2446955.831 310215.752 785.64644 -0.56 WIL-10 788.605
2446955.831 310215.752 785.5218 -0.34 WIL-10 788.605
2446955.831 310215.752 785.40044 -0.45 WIL-10 788.605
2446955.831 310215.752 785.25612 -0.51 WIL-10 788.605
2446955.831 310215.752 785.14132 -0.43 WIL-10 788.605
2446955.831 310215.752 785.0298 -0.47 WIL-10 788.605
2446955.831 310215.752 784.915 -0.46 WIL-10 788.605
2446955.831 310215.752 784.80676 -0.46 WIL-10 788.605
2446955.831 310215.752 784.68868 -0.39 WIL-10 788.605
2446955.831 310215.752 784.56404 -0.57 WIL-10 788.605
2446955.831 310215.752 784.42956 -0.46 WIL-10 788.605
2446955.831 310215.752 784.3082 -0.42 WIL-10 788.605
2446955.831 310215.752 784.18684 -0.54 WIL-10 788.605
2446955.831 310215.752 784.08516 -0.4 WIL-10 788.605
2446955.831 310215.752 783.97036 -0.55 WIL-10 788.605
2446955.831 310215.752 783.84244 -0.62 WIL-10 788.605
2446955.831 310215.752 783.74404 -0.5 WIL-10 788.605
2446955.831 310215.752 783.61612 -0.62 WIL-10 788.605
2446955.831 310215.752 783.50132 -0.4 WIL-10 788.605
2446955.831 310215.752 783.39964 -0.37 WIL-10 788.605
2446955.831 310215.752 783.29796 -0.44 WIL-10 788.605
2446955.831 310215.752 783.18972 -0.41 WIL-10 788.605
2446955.831 310215.752 783.08476 -0.39 WIL-10 788.605
2446955.831 310215.752 782.95028 -0.57 WIL-10 788.605
2446955.831 310215.752 782.8322 -0.66 WIL-10 788.605
2446955.831 310215.752 782.7174 -0.37 WIL-10 788.605
```

```
2446955.831 310215.752 782.6026 -0.47 WIL-10 788.605
2446955.831 310215.752 782.46812 -0.52 WIL-10 788.605
2446955.831 310215.752 782.3402 -0.55 WIL-10 788.605
2446955.831 310215.752 782.23196 -0.4 WIL-10 788.605
2446955.831 310215.752 782.08764 -0.46 WIL-10 788.605
2446955.831 310215.752 781.963 -0.62 WIL-10 788.605
2446955.831 310215.752 781.8154 -0.54 WIL-10 788.605
2446955.831 310215.752 781.71372 -0.43 WIL-10 788.605
2446955.831 310215.752 781.61532 -0.36 WIL-10 788.605
2446955.831 310215.752 781.48084 -0.34 WIL-10 788.605
2446955.831 310215.752 781.3398 -0.66 WIL-10 788.605
2446955.831 310215.752 781.20204 -0.55 WIL-10 788.605
2446955.831 310215.752 781.08724 -0.25 WIL-10 788.605
2446955.831 310215.752 780.98884 0.19 WIL-10 788.605
2446955.831 310215.752 780.89044 -0.36 WIL-10 788.605
2446955.831 310215.752 780.79204 -0.29 WIL-10 788.605
2446955.831 310215.752 780.69364 -0.27 WIL-10 788.605
2446955.831 310215.752 780.53948 -0.44 WIL-10 788.605
2446955.831 310215.752 780.39516 -0.5 WIL-10 788.605
2446955.831 310215.752 780.23772 -0.68 WIL-10 788.605
2446955.831 310215.752 780.09996 -0.43 WIL-10 788.605
2446955.831 310215.752 779.97204 -0.38 WIL-10 788.605
2446955.831 310215.752 779.87036 -0.38 WIL-10 788.605
2446955.831 310215.752 779.71948 -0.21 WIL-10 788.605
2446955.831 310215.752 779.58828 -0.28 WIL-10 788.605
2446955.831 310215.752 779.43084 -0.38 WIL-10 788.605
2446955.831 310215.752 779.31932 -0.38 WIL-10 788.605
2446955.831 310215.752 779.21764 -0.58 WIL-10 788.605
2446955.831 310215.752 779.09956 -0.55 WIL-10 788.605
2446955.831 310215.752 778.98476 -0.36 WIL-10 788.605
2446955.831 310215.752 778.87324 -0.46 WIL-10 788.605
2446955.831 310215.752 778.75844 -0.32 WIL-10 788.605
2446955.831 310215.752 778.64692 -0.44 WIL-10 788.605
2446955.831 310215.752 778.53212 -0.38 WIL-10 788.605
2446955.831 310215.752 778.43372 -0.39 WIL-10 788.605
2446955.831 310215.752 778.2566 -0.44 WIL-10 788.605
2446955.831 310215.752 778.11228 -0.31 WIL-10 788.605
2446955.831 310215.752 777.98108 -0.17 WIL-10 788.605
2446955.831 310215.752 777.86956 -0.44 WIL-10 788.605
2446955.831 310215.752 777.7646 -0.38 WIL-10 788.605
2446955.831 310215.752 777.66292 -0.63 WIL-10 788.605
2446955.831 310215.752 777.53828 -0.46 WIL-10 788.605
2446955.831 310215.752 777.4366 -0.44 WIL-10 788.605
2446955.831 310215.752 777.31852 -0.62 WIL-10 788.605
2446955.831 310215.752 777.16436 -0.45 WIL-10 788.605
2446955.831 310215.752 777.0594 -0.34 WIL-10 788.605
2446955.831 310215.752 776.94788 -0.38 WIL-10 788.605
2446955.831 310215.752 776.8134 -0.46 WIL-10 788.605
2446955.831 310215.752 776.67892 -0.37 WIL-10 788.605
2446955.831 310215.752 776.51492 -0.55 WIL-10 788.605
2446955.831 310215.752 776.4034 -0.39 WIL-10 788.605
2446955.831 310215.752 776.30172 -0.26 WIL-10 788.605
2446955.831 310215.752 776.18692 -0.2 WIL-10 788.605
2446955.831 310215.752 776.00324 -0.27 WIL-10 788.605
2446955.831 310215.752 775.813 -0.29 WIL-10 788.605
2446955.831 310215.752 775.6982 -0.48 WIL-10 788.605
2446955.831 310215.752 775.51124 -0.39 WIL-10 788.605
2446955.831 310215.752 775.31772 -0.28 WIL-10 788.605
2446955.831 310215.752 775.20292 -0.27 WIL-10 788.605
2446955.831 310215.752 775.0914 -0.07 WIL-10 788.605
2446955.831 310215.752 774.96348 -0.33 WIL-10 788.605
2446955.831 310215.752 774.80604 -0.36 WIL-10 788.605
2446955.831 310215.752 774.69124 -0.27 WIL-10 788.605
2446955.831 310215.752 774.57644 -0.15 WIL-10 788.605
2446955.831 310215.752 774.3862 -0.27 WIL-10 788.605
2446955.831 310215.752 774.19268 0.27 WIL-10 788.605
2446955.831 310215.752 774.08444 0.7 WIL-10 788.605
2446955.831 310215.752 773.97292 1.19 WIL-10 788.605
2446955.831 310215.752 773.87124 1.34 WIL-10 788.605
2446955.831 310215.752 773.77284 0.13 WIL-10 788.605
2446955.831 310215.752 773.65476 -0.23 WIL-10 788.605
2446955.831 310215.752 773.55636 -0.08 WIL-10 788.605
2446955.831 310215.752 773.52356 -0.22 WIL-10 788.605
2446948.055 310181.68 786.529 0.1 WIL-11 786.529
2446948.055 310181.68 786.41092 -0.34 WIL-11 786.529
2446948.055 310181.68 785.64996 -0.37 WIL-11 786.529
2446948.055 310181.68 785.50892 -0.51 WIL-11 786.529
2446948.055 310181.68 785.19732 -0.31 WIL-11 786.529
2446948.055 310181.68 785.09236 -0.29 WIL-11 786.529
2446948.055 310181.68 784.98412 -0.47 WIL-11 786.529
2446948.055 310181.68 784.88572 -0.36 WIL-11 786.529
2446948.055 310181.68 784.75452 -0.44 WIL-11 786.529
2446948.055 310181.68 784.6102 -0.25 WIL-11 786.529
2446948.055 310181.68 784.49212 0.29 WIL-11 786.529
2446948.055 310181.68 784.38716 -0.25 WIL-11 786.529
2446948.055 310181.68 784.2494 -0.4 WIL-11 786.529
2446948.055 310181.68 784.13788 -0.46 WIL-11 786.529
2446948.055 310181.68 784.02308 -0.33 WIL-11 786.529
2446948.055 310181.68 783.90828 -0.38 WIL-11 786.529
2446948.055 310181.68 783.79348 -0.34 WIL-11 786.529
2446948.055 310181.68 783.65572 -0.34 WIL-11 786.529
2446948.055 310181.68 783.54092 -0.3 WIL-11 786.529
2446948.055 310181.68 783.42284 -0.29 WIL-11 786.529
2446948.055 310181.68 783.30476 -0.3 WIL-11 786.529
2446948.055 310181.68 783.19652 -0.55 WIL-11 786.529
2446948.055 310181.68 783.07188 -0.32 WIL-11 786.529
2446948.055 310181.68 782.92428 -0.53 WIL-11 786.529
2446948.055 310181.68 782.8226 -0.39 WIL-11 786.529
2446948.055 310181.68 782.6586 0 WIL-11 786.529
2446948.055 310181.68 782.55036 -0.18 WIL-11 786.529
2446948.055 310181.68 782.3634 -0.35 WIL-11 786.529
2446948.055 310181.68 782.26172 -0.37 WIL-11 786.529
```

```
2446948.055 310181.68 782.10428 -0.35 WIL-11 786.529
2446948.055 310181.68 781.94028 -0.36 WIL-11 786.529
2446948.055 310181.68 781.79924 -0.39 WIL-11 786.529
2446948.055 310181.68 781.68772 -0.25 WIL-11 786.529
2446948.055 310181.68 781.53028 -0.34 WIL-11 786.529
2446948.055 310181.68 781.40564 -0.57 WIL-11 786.529
2446948.055 310181.68 781.30396 -0.24 WIL-11 786.529
2446948.055 310181.68 781.19244 -0.32 WIL-11 786.529
2446948.055 310181.68 781.05796 -0.36 WIL-11 786.529
2446948.055 310181.68 780.93988 -0.23 WIL-11 786.529
2446948.055 310181.68 780.82836 -0.39 WIL-11 786.529
2446948.055 310181.68 780.72012 -0.35 WIL-11 786.529
2446948.055 310181.68 780.61188 -0.49 WIL-11 786.529
2446948.055 310181.68 780.45772 -0.33 WIL-11 786.529
2446948.055 310181.68 780.29044 -0.41 WIL-11 786.529
2446948.055 310181.68 780.15924 -0.73 WIL-11 786.529
2446948.055 310181.68 780.01492 -0.42 WIL-11 786.529
2446948.055 310181.68 779.887 -0.48 WIL-11 786.529
2446948.055 310181.68 779.7558 -0.38 WIL-11 786.529
2446948.055 310181.68 779.63444 -0.45 WIL-11 786.529
2446948.055 310181.68 779.53276 -0.27 WIL-11 786.529
2446948.055 310181.68 779.42452 -0.27 WIL-11 786.529
2446948.055 310181.68 779.27364 -0.39 WIL-11 786.529
2446948.055 310181.68 779.149 -0.39 WIL-11 786.529
2446948.055 310181.68 779.04732 -0.44 WIL-11 786.529
2446948.055 310181.68 778.94564 -0.4 WIL-11 786.529
2446948.055 310181.68 778.8046 -0.42 WIL-11 786.529
2446948.055 310181.68 778.69636 -0.57 WIL-11 786.529
2446948.055 310181.68 778.57828 -0.45 WIL-11 786.529
2446948.055 310181.68 778.46348 -0.39 WIL-11 786.529
2446948.055 310181.68 778.34868 -0.43 WIL-11 786.529
2446948.055 310181.68 778.24044 -0.39 WIL-11 786.529
2446948.055 310181.68 778.12564 -0.37 WIL-11 786.529
2446948.055 310181.68 778.01412 -0.27 WIL-11 786.529
2446948.055 310181.68 777.87636 -0.31 WIL-11 786.529
2446948.055 310181.68 777.76484 -0.39 WIL-11 786.529
2446948.055 310181.68 777.65004 -0.4 WIL-11 786.529
2446948.055 310181.68 777.51228 -0.48 WIL-11 786.529
2446948.055 310181.68 777.41388 -0.44 WIL-11 786.529
2446948.055 310181.68 777.30892 -0.28 WIL-11 786.529
2446948.055 310181.68 777.20068 -0.32 WIL-11 786.529
2446948.055 310181.68 777.0826 -0.41 WIL-11 786.529
2446948.055 310181.68 776.94812 -0.31 WIL-11 786.529
2446948.055 310181.68 776.83332 -0.43 WIL-11 786.529
2446948.055 310181.68 776.72508 -0.49 WIL-11 786.529
2446948.055 310181.68 776.59388 -0.46 WIL-11 786.529
2446948.055 310181.68 776.46268 -0.36 WIL-11 786.529
2446948.055 310181.68 776.3282 -0.45 WIL-11 786.529
2446948.055 310181.68 776.14124 -0.41 WIL-11 786.529
2446948.055 310181.68 776.0002 -0.36 WIL-11 786.529
2446948.055 310181.68 775.8854 -0.56 WIL-11 786.529
2446948.055 310181.68 775.7542 -0.46 WIL-11 786.529
2446948.055 310181.68 775.62956 -0.44 WIL-11 786.529
2446948.055 310181.68 775.47212 -0.34 WIL-11 786.529
2446948.055 310181.68 775.3114 -0.42 WIL-11 786.529
2446948.055 310181.68 775.20316 -0.38 WIL-11 786.529
2446948.055 310181.68 775.02604 -0.26 WIL-11 786.529
2446948.055 310181.68 774.84892 -0.41 WIL-11 786.529
2446948.055 310181.68 774.66852 -0.33 WIL-11 786.529
2446948.055 310181.68 774.557 -0.42 WIL-11 786.529
2446948.055 310181.68 774.45532 -0.5 WIL-11 786.529
2446948.055 310181.68 774.33068 -0.34 WIL-11 786.529
2446948.055 310181.68 774.1798 -0.46 WIL-11 786.529
2446948.055 310181.68 774.07812 -0.56 WIL-11 786.529
2446948.055 310181.68 773.97316 -0.42 WIL-11 786.529
2446948.055 310181.68 773.8518 -0.52 WIL-11 786.529
2446948.055 310181.68 773.74684 -0.55 WIL-11 786.529
2446948.055 310181.68 773.64516 -0.4 WIL-11 786.529
2446948.055 310181.68 773.51396 -0.36 WIL-11 786.529
2446948.055 310181.68 773.39916 -0.35 WIL-11 786.529
2446948.055 310181.68 773.2942 -0.42 WIL-11 786.529
2446948.055 310181.68 773.1302 -0.32 WIL-11 786.529
2446948.055 310181.68 772.99244 -0.44 WIL-11 786.529
2446948.055 310181.68 772.8514 -0.44 WIL-11 786.529
2446948.055 310181.68 772.7202 -0.34 WIL-11 786.529
2446948.055 310181.68 772.64148 -0.39 WIL-11 786.529
2446913.87 310146.047 784.331 0.05 WIL-12 784.331
2446913.87 310146.047 784.1834 -0.36 WIL-12 784.331
2446913.87 310146.047 784.04564 -0.37 WIL-12 784.331
2446913.87 310146.047 783.8554 -0.14 WIL-12 784.331
2446913.87 310146.047 783.67172 -0.21 WIL-12 784.331
2446913.87 310146.047 783.57332 -0.23 WIL-12 784.331
2446913.87 310146.047 783.45524 -0.19 WIL-12 784.331
2446913.87 310146.047 783.25844 -0.1 WIL-12 784.331
2446913.87 310146.047 783.14036 -0.2 WIL-12 784.331
2446913.87 310146.047 782.937 -0.31 WIL-12 784.331
2446913.87 310146.047 782.79596 -0.08 WIL-12 784.331
2446913.87 310146.047 782.65164 -0.18 WIL-12 784.331
2446913.87 310146.047 782.54012 -0.25 WIL-12 784.331
2446913.87 310146.047 782.43844 -0.08 WIL-12 784.331
2446913.87 310146.047 782.32036 -0.1 WIL-12 784.331
2446913.87 310146.047 782.19572 -0.05 WIL-12 784.331
2446913.87 310146.047 782.04812 -0.13 WIL-12 784.331
2446913.87 310146.047 781.92676 -0.41 WIL-12 784.331
2446913.87 310146.047 781.80212 0.42 WIL-12 784.331
2446913.87 310146.047 781.68076 0.18 WIL-12 784.331
2446913.87 310146.047 781.55612 0.1 WIL-12 784.331
2446913.87 310146.047 781.40852 0.06 WIL-12 784.331
2446913.87 310146.047 781.27076 0.06 WIL-12 784.331
2446913.87 310146.047 781.14612 0.04 WIL-12 784.331
2446913.87 310146.047 781.01164 -0.36 WIL-12 784.331
2446913.87 310146.047 780.87388 0.1 WIL-12 784.331
```

```
2446913.87 310146.047 780.75908 0.03 WIL-12 784.331
2446913.87 310146.047 780.64756 0.37 WIL-12 784.331
2446913.87 310146.047 780.53276 -0.25 WIL-12 784.331
2446913.87 310146.047 780.42452 0.26 WIL-12 784.331
2446913.87 310146.047 780.231 -0.09 WIL-12 784.331
2446913.87 310146.047 780.07356 -0.08 WIL-12 784.331
2446913.87 310146.047 779.92924 0.23 WIL-12 784.331
2446913.87 310146.047 779.80788 0.3 WIL-12 784.331
2446913.87 310146.047 779.68324 0.24 WIL-12 784.331
2446913.87 310146.047 779.57828 0.24 WIL-12 784.331
2446913.87 310146.047 779.46676 -0.04 WIL-12 784.331
2446913.87 310146.047 779.35852 -0.1 WIL-12 784.331
2446913.87 310146.047 779.2306 0.71 WIL-12 784.331
2446913.87 310146.047 779.0994 0.17 WIL-12 784.331
2446913.87 310146.047 778.99116 1.14 WIL-12 784.331
2446913.87 310146.047 778.88292 -0.1 WIL-12 784.331
2446913.87 310146.047 778.74516 -0.24 WIL-12 784.331
2446913.87 310146.047 778.58116 -0.11 WIL-12 784.331
2446913.87 310146.047 778.46636 0.05 WIL-12 784.331
2446913.87 310146.047 778.35156 -0.16 WIL-12 784.331
2446913.87 310146.047 778.23676 -0.3 WIL-12 784.331
2446913.87 310146.047 778.12196 0.03 WIL-12 784.331
2446913.87 310146.047 777.9842 -0.06 WIL-12 784.331
2446913.87 310146.047 777.86612 -0.35 WIL-12 784.331
2446913.87 310146.047 777.75132 -0.12 WIL-12 784.331
2446913.87 310146.047 777.63652 -0.15 WIL-12 784.331
2446913.87 310146.047 777.4922 -0.16 WIL-12 784.331
2446913.87 310146.047 777.3938 -0.06 WIL-12 784.331
2446913.87 310146.047 777.28228 -0.1 WIL-12 784.331
2446913.87 310146.047 777.16748 -0.18 WIL-12 784.331
2446913.87 310146.047 777.01004 -0.07 WIL-12 784.331
2446913.87 310146.047 776.9018 -0.1 WIL-12 784.331
2446913.87 310146.047 776.71484 -0.14 WIL-12 784.331
2446913.87 310146.047 776.541 -0.21 WIL-12 784.331
2446913.87 310146.047 776.41636 -0.13 WIL-12 784.331
2446913.87 310146.047 776.31468 -0.23 WIL-12 784.331
2446913.87 310146.047 776.20644 -0.27 WIL-12 784.331
2446913.87 310146.047 776.05556 -0.23 WIL-12 784.331
2446913.87 310146.047 775.9342 -0.23 WIL-12 784.331
2446913.87 310146.047 775.8194 0.19 WIL-12 784.331
2446913.87 310146.047 775.69148 0.09 WIL-12 784.331
2446913.87 310146.047 775.57668 -0.11 WIL-12 784.331
2446913.87 310146.047 775.4258 -0.15 WIL-12 784.331
2446913.87 310146.047 775.28476 0 WIL-12 784.331
2446913.87 310146.047 775.14044 -0.08 WIL-12 784.331
2446913.87 310146.047 774.9666 -0.18 WIL-12 784.331
2446913.87 310146.047 774.8682 -0.12 WIL-12 784.331
2446913.87 310146.047 774.67468 -0.2 WIL-12 784.331
2446913.87 310146.047 774.48444 -0.16 WIL-12 784.331
2446913.87 310146.047 774.34012 -0.24 WIL-12 784.331
2446913.87 310146.047 774.18268 -0.21 WIL-12 784.331
2446913.87 310146.047 774.08428 -0.36 WIL-12 784.331
2446913.87 310146.047 773.92356 -0.17 WIL-12 784.331
2446913.87 310146.047 773.76284 -0.2 WIL-12 784.331
2446913.87 310146.047 773.6546 -0.23 WIL-12 784.331
2446913.87 310146.047 773.47092 -0.19 WIL-12 784.331
2446913.87 310146.047 773.35612 -0.15 WIL-12 784.331
2446913.87 310146.047 773.18556 -0.21 WIL-12 784.331
2446913.87 310146.047 773.08716 -0.08 WIL-12 784.331
2446913.87 310146.047 772.96908 -0.06 WIL-12 784.331
2446913.87 310146.047 772.8674 -0.21 WIL-12 784.331
2446913.87 310146.047 772.76572 -0.27 WIL-12 784.331
2446913.87 310146.047 772.6378 -0.21 WIL-12 784.331
2446913.87 310146.047 772.48364 -0.04 WIL-12 784.331
2446913.87 310146.047 772.3262 -0.12 WIL-12 784.331
2446913.87 310146.047 772.18188 -0.34 WIL-12 784.331
2446913.87 310146.047 772.06708 -0.18 WIL-12 784.331
2446913.87 310146.047 772.04084 -0.16 WIL-12 784.331
2446876.427 310093.162 783.32 -0.11 WIL-13 783.32
2446876.427 310093.162 783.11992 -0.83 WIL-13 783.32
2446876.427 310093.162 782.97232 -0.43 WIL-13 783.32
2446876.427 310093.162 782.85096 -0.56 WIL-13 783.32
2446876.427 310093.162 782.73616 -0.61 WIL-13 783.32
2446876.427 310093.162 782.54592 -0.53 WIL-13 783.32
2446876.427 310093.162 782.34912 -0.47 WIL-13 783.32
2446876.427 310093.162 782.24088 -0.69 WIL-13 783.32
2446876.427 310093.162 781.926 -1.06 WIL-13 783.32
2446876.427 310093.162 781.81776 -1.03 WIL-13 783.32
2446876.427 310093.162 781.69968 -0.38 WIL-13 783.32
2446876.427 310093.162 781.598 -0.45 WIL-13 783.32
2446876.427 310093.162 781.45368 -0.47 WIL-13 783.32
2446876.427 310093.162 781.30608 -0.41 WIL-13 783.32
2446876.427 310093.162 781.12896 -0.39 WIL-13 783.32
2446876.427 310093.162 780.97808 -0.05 WIL-13 783.32
2446876.427 310093.162 780.83048 0.02 WIL-13 783.32
2446876.427 310093.162 780.67632 -0.85 WIL-13 783.32
2446876.427 310093.162 780.57792 -0.79 WIL-13 783.32
2446876.427 310093.162 780.4664 -0.33 WIL-13 783.32
2446876.427 310093.162 780.3516 -0.21 WIL-13 783.32
2446876.427 310093.162 780.2532 -0.39 WIL-13 783.32
2446876.427 310093.162 780.06296 -0.4 WIL-13 783.32
2446876.427 310093.162 779.88256 -0.13 WIL-13 783.32
2446876.427 310093.162 779.77104 -0.25 WIL-13 783.32
2446876.427 310093.162 779.58408 -0.57 WIL-13 783.32
2446876.427 310093.162 779.42992 -0.52 WIL-13 783.32
2446876.427 310093.162 779.28232 -0.42 WIL-13 783.32
2446876.427 310093.162 779.18064 -0.36 WIL-13 783.32
2446876.427 310093.162 779.00024 -0.25 WIL-13 783.32
2446876.427 310093.162 778.86904 -1.08 WIL-13 783.32
2446876.427 310093.162 778.728 -0.44 WIL-13 783.32
2446876.427 310093.162 778.564 -0.45 WIL-13 783.32
2446876.427 310093.162 778.42952 -0.66 WIL-13 783.32
```

```
2446876.427 310093.162 778.29504 -1 WIL-13 783.32
2446876.427 310093.162 778.18024 -0.3 WIL-13 783.32
2446876.427 310093.162 778.04248 -0.41 WIL-13 783.32
2446876.427 310093.162 777.93752 -0.35 WIL-13 783.32
2446876.427 310093.162 777.83912 -0.19 WIL-13 783.32
2446876.427 310093.162 777.68824 -0.12 WIL-13 783.32
2446876.427 310093.162 777.53736 -0.4 WIL-13 783.32
2446876.427 310093.162 777.41928 -0.34 WIL-13 783.32
2446876.427 310093.162 777.26512 -0.63 WIL-13 783.32
2446876.427 310093.162 777.15688 -1.01 WIL-13 783.32
2446876.427 310093.162 776.97976 -0.44 WIL-13 783.32
2446876.427 310093.162 776.87152 -0.43 WIL-13 783.32
2446876.427 310093.162 776.69112 -0.32 WIL-13 783.32
2446876.427 310093.162 776.53368 -1.06 WIL-13 783.32
2446876.427 310093.162 776.38936 -0.39 WIL-13 783.32
2446876.427 310093.162 776.24176 -0.57 WIL-13 783.32
2446876.427 310093.162 776.06464 -0.43 WIL-13 783.32
2446876.427 310093.162 775.9236 -0.69 WIL-13 783.32
2446876.427 310093.162 775.76616 -0.34 WIL-13 783.32
2446876.427 310093.162 775.62512 -0.31 WIL-13 783.32
2446876.427 310093.162 775.4972 -0.49 WIL-13 783.32
2446876.427 310093.162 775.37912 -0.57 WIL-13 783.32
2446876.427 310093.162 775.23808 -0.37 WIL-13 783.32
2446876.427 310093.162 775.12328 -0.58 WIL-13 783.32
2446876.427 310093.162 775.01176 -0.41 WIL-13 783.32
2446876.427 310093.162 774.90024 -0.24 WIL-13 783.32
2446876.427 310093.162 774.78872 -0.37 WIL-13 783.32
2446876.427 310093.162 774.6772 -0.59 WIL-13 783.32
2446876.427 310093.162 774.55584 -0.39 WIL-13 783.32
2446876.427 310093.162 774.45416 -0.48 WIL-13 783.32
2446876.427 310093.162 774.32624 -0.48 WIL-13 783.32
2446876.427 310093.162 774.20816 -0.85 WIL-13 783.32
2446876.427 310093.162 774.1032 -1.09 WIL-13 783.32
2446876.427 310093.162 774.01792 -0.45 WIL-13 783.32
2446869.481 310045.617 783.673 -0.5 WIL-14 783.673
2446869.481 310045.617 783.57132 -0.65 WIL-14 783.673
2446869.481 310045.617 783.42044 -0.54 WIL-14 783.673
2446869.481 310045.617 783.2302 -0.58 WIL-14 783.673
2446869.481 310045.617 783.06948 -0.64 WIL-14 783.673
2446869.481 310045.617 782.90876 -0.86 WIL-14 783.673
2446869.481 310045.617 782.7546 -0.63 WIL-14 783.673
2446869.481 310045.617 782.59388 -0.62 WIL-14 783.673
2446869.481 310045.617 782.43316 -0.52 WIL-14 783.673
2446869.481 310045.617 782.24292 -0.66 WIL-14 783.673
2446869.481 310045.617 782.12156 -0.57 WIL-14 783.673
2446869.481 310045.617 781.99036 -0.74 WIL-14 783.673
2446869.481 310045.617 781.81324 -0.44 WIL-14 783.673
2446869.481 310045.617 781.6558 -0.49 WIL-14 783.673
2446869.481 310045.617 781.50492 0.92 WIL-14 783.673
2446869.481 310045.617 781.35404 0.77 WIL-14 783.673
2446869.481 310045.617 781.25236 0.51 WIL-14 783.673
2446869.481 310045.617 781.1146 0.67 WIL-14 783.673
2446869.481 310045.617 780.95388 1.01 WIL-14 783.673
2446869.481 310045.617 780.78332 5.32 WIL-14 783.673
2446869.481 310045.617 780.64228 5.86 WIL-14 783.673
2446869.481 310045.617 780.50124 5.97 WIL-14 783.673
2446869.481 310045.617 780.36676 2.83 WIL-14 783.673
2446869.481 310045.617 780.22572 3.11 WIL-14 783.673
2446869.481 310045.617 780.06172 5 WIL-14 783.673
2446869.481 310045.617 779.92396 3.83 WIL-14 783.673
2446869.481 310045.617 779.79932 2.97 WIL-14 783.673
2446869.481 310045.617 779.47788 2.28 WIL-14 783.673
2446869.481 310045.617 779.327 2.59 WIL-14 783.673
2446869.481 310045.617 779.1958 1.69 WIL-14 783.673
2446869.481 310045.617 779.04492 1.27 WIL-14 783.673
2446869.481 310045.617 778.94324 1.17 WIL-14 783.673
2446869.481 310045.617 778.82844 1.26 WIL-14 783.673
2446869.481 310045.617 778.67428 -0.18 WIL-14 783.673
2446869.481 310045.617 778.56604 -0.1 WIL-14 783.673
2446869.481 310045.617 778.42828 -0.23 WIL-14 783.673
2446869.481 310045.617 778.3266 -0.22 WIL-14 783.673
2446869.481 310045.617 778.21836 -0.3 WIL-14 783.673
2446869.481 310045.617 778.08388 -0.43 WIL-14 783.673
2446869.481 310045.617 777.97564 -0.52 WIL-14 783.673
2446869.481 310045.617 777.83788 -0.86 WIL-14 783.673
2446869.481 310045.617 777.69356 -0.76 WIL-14 783.673
2446869.481 310045.617 777.52628 -0.64 WIL-14 783.673
2446869.481 310045.617 777.40164 -1.3 WIL-14 783.673
2446869.481 310045.617 777.29012 -1.33 WIL-14 783.673
2446869.481 310045.617 777.17204 -1.38 WIL-14 783.673
2446869.481 310045.617 777.04412 -0.78 WIL-14 783.673
2446869.481 310045.617 776.90636 -0.61 WIL-14 783.673
2446869.481 310045.617 776.79156 0.48 WIL-14 783.673
2446869.481 310045.617 776.68988 -0.37 WIL-14 783.673
2446869.481 310045.617 776.539 -1.04 WIL-14 783.673
2446869.481 310045.617 776.37828 -0.81 WIL-14 783.673
2446869.481 310045.617 776.2766 -0.63 WIL-14 783.673
2446869.481 310045.617 776.1126 -0.72 WIL-14 783.673
2446869.481 310045.617 775.9486 -0.95 WIL-14 783.673
2446869.481 310045.617 775.84692 -1.1 WIL-14 783.673
2446869.481 310045.617 775.69604 -1.04 WIL-14 783.673
2446869.481 310045.617 775.59764 -0.92 WIL-14 783.673
2446869.481 310045.617 775.46972 -0.75 WIL-14 783.673
2446869.481 310045.617 775.33524 -0.46 WIL-14 783.673
2446869.481 310045.617 775.22372 -0.77 WIL-14 783.673
2446869.481 310045.617 775.11548 -0.7 WIL-14 783.673
2446869.481 310045.617 775.00724 -0.71 WIL-14 783.673
2446869.481 310045.617 774.87604 -0.52 WIL-14 783.673
2446869.481 310045.617 774.735 -0.65 WIL-14 783.673
2446869.481 310045.617 774.58412 -0.54 WIL-14 783.673
2446869.481 310045.617 774.43324 -0.69 WIL-14 783.673
2446869.481 310045.617 774.28892 -0.93 WIL-14 783.673
```

```
2446869.481 310045.617 774.1118 -0.63 WIL-14 783.673
2446869.481 310045.617 773.9642 -0.73 WIL-14 783.673
2446869.481 310045.617 773.8002 -1.15 WIL-14 783.673
2446869.481 310045.617 773.66244 -1.16 WIL-14 783.673
2446869.481 310045.617 773.52468 -0.56 WIL-14 783.673
2446869.481 310045.617 773.35084 -1 WIL-14 783.673
2446869.481 310045.617 773.2098 -0.63 WIL-14 783.673
2446869.481 310045.617 773.05892 -1.22 WIL-14 783.673
2446869.481 310045.617 772.91132 -1.17 WIL-14 783.673
2446869.481 310045.617 772.767 -0.75 WIL-14 783.673
2446869.481 310045.617 772.58988 -0.83 WIL-14 783.673
2446869.481 310045.617 772.439 -0.87 WIL-14 783.673
2446869.481 310045.617 772.29468 -0.95 WIL-14 783.673
2446869.481 310045.617 772.16676 -1.09 WIL-14 783.673
2446869.481 310045.617 772.06836 -1.1 WIL-14 783.673
2446869.481 310045.617 771.95356 -0.57 WIL-14 783.673
2446869.481 310045.617 771.83876 -1.26 WIL-14 783.673
2446869.481 310045.617 771.72068 -0.71 WIL-14 783.673
2446869.481 310045.617 771.62228 -0.61 WIL-14 783.673
2446869.481 310045.617 771.51732 -0.72 WIL-14 783.673
2446869.481 310045.617 771.48124 -0.71 WIL-14 783.673
2446920.467 310013.691 782.732 -0.77 WIL-15 782.732
2446920.467 310013.691 782.6172 -0.83 WIL-15 782.732
2446920.467 310013.691 782.5024 -0.94 WIL-15 782.732
2446920.467 310013.691 782.3384 -0.74 WIL-15 782.732
2446920.467 310013.691 782.00056 -1.08 WIL-15 782.732
2446920.467 310013.691 781.86936 -0.89 WIL-15 782.732
2446920.467 310013.691 781.71848 -0.88 WIL-15 782.732
2446920.467 310013.691 781.56104 -1.02 WIL-15 782.732
2446920.467 310013.691 781.4528 -0.62 WIL-15 782.732
2446920.467 310013.691 781.33144 -0.77 WIL-15 782.732
2446920.467 310013.691 781.19696 -0.55 WIL-15 782.732
2446920.467 310013.691 781.05264 -0.4 WIL-15 782.732
2446920.467 310013.691 780.92144 -0.65 WIL-15 782.732
2446920.467 310013.691 780.79352 -0.53 WIL-15 782.732
2446920.467 310013.691 780.65904 -0.65 WIL-15 782.732
2446920.467 310013.691 780.49504 -0.34 WIL-15 782.732
2446920.467 310013.691 780.3376 -0.69 WIL-15 782.732
2446920.467 310013.691 780.18344 -0.51 WIL-15 782.732
2446920.467 310013.691 780.03912 -0.49 WIL-15 782.732
2446920.467 310013.691 779.90136 -0.7 WIL-15 782.732
2446920.467 310013.691 779.7964 -0.42 WIL-15 782.732
2446920.467 310013.691 779.6488 -0.59 WIL-15 782.732
2446920.467 310013.691 779.5012 -0.49 WIL-15 782.732
2446920.467 310013.691 779.34376 -0.72 WIL-15 782.732
2446920.467 310013.691 779.16008 -0.77 WIL-15 782.732
2446920.467 310013.691 779.05184 -0.59 WIL-15 782.732
2446920.467 310013.691 778.9272 -0.94 WIL-15 782.732
2446920.467 310013.691 778.7304 -0.76 WIL-15 782.732
2446920.467 310013.691 778.55 -0.85 WIL-15 782.732
2446920.467 310013.691 778.42536 -0.76 WIL-15 782.732
2446920.467 310013.691 778.30728 -0.71 WIL-15 782.732
2446920.467 310013.691 778.19248 -0.62 WIL-15 782.732
2446920.467 310013.691 778.0744 -0.85 WIL-15 782.732
2446920.467 310013.691 777.93336 -0.69 WIL-15 782.732
2446920.467 310013.691 777.7628 -0.7 WIL-15 782.732
2446920.467 310013.691 777.6644 -0.81 WIL-15 782.732
2446920.467 310013.691 777.49712 -0.77 WIL-15 782.732
2446920.467 310013.691 777.32 -0.7 WIL-15 782.732
2446920.467 310013.691 777.21176 -0.78 WIL-15 782.732
2446920.467 310013.691 777.03136 -0.88 WIL-15 782.732
2446920.467 310013.691 776.87392 -0.73 WIL-15 782.732
2446920.467 310013.691 776.73944 -0.87 WIL-15 782.732
2446920.467 310013.691 776.64104 -0.95 WIL-15 782.732
2446920.467 310013.691 776.48688 -0.57 WIL-15 782.732
2446920.467 310013.691 776.35896 -0.61 WIL-15 782.732
2446920.467 310013.691 776.24416 -0.93 WIL-15 782.732
2446920.467 310013.691 776.09 -0.87 WIL-15 782.732
2446920.467 310013.691 775.9096 -0.81 WIL-15 782.732
2446920.467 310013.691 775.80464 -0.78 WIL-15 782.732
2446920.467 310013.691 775.62096 -0.77 WIL-15 782.732
2446920.467 310013.691 775.50616 -0.56 WIL-15 782.732
2446920.467 310013.691 775.352 -0.92 WIL-15 782.732
2446920.467 310013.691 775.21424 -0.71 WIL-15 782.732
2446920.467 310013.691 775.06664 0.06 WIL-15 782.732
2446920.467 310013.691 774.9584 -0.22 WIL-15 782.732
2446920.467 310013.691 774.78128 -0.24 WIL-15 782.732
2446920.467 310013.691 774.67632 -0.05 WIL-15 782.732
2446920.467 310013.691 774.49592 -0.96 WIL-15 782.732
2446920.467 310013.691 774.31552 -0.88 WIL-15 782.732
2446920.467 310013.691 774.21056 -0.57 WIL-15 782.732
2446920.467 310013.691 774.06952 -0.97 WIL-15 782.732
2446920.467 310013.691 773.91536 -0.93 WIL-15 782.732
2446920.467 310013.691 773.79728 -0.71 WIL-15 782.732
2446920.467 310013.691 773.69232 -0.77 WIL-15 782.732
2446920.467 310013.691 773.51848 -0.63 WIL-15 782.732
2446920.467 310013.691 773.34792 -0.85 WIL-15 782.732
2446920.467 310013.691 773.1708 -0.7 WIL-15 782.732
2446920.467 310013.691 773.06584 -0.61 WIL-15 782.732
2446920.467 310013.691 772.88216 -0.77 WIL-15 782.732
2446920.467 310013.691 772.77064 -0.96 WIL-15 782.732
2446920.467 310013.691 772.58696 -0.75 WIL-15 782.732
2446920.467 310013.691 772.40656 -0.69 WIL-15 782.732
2446920.467 310013.691 772.28192 -0.7 WIL-15 782.732
2446920.467 310013.691 772.16384 -0.9 WIL-15 782.732
2446920.467 310013.691 771.99984 -0.98 WIL-15 782.732
2446920.467 310013.691 771.88176 -0.81 WIL-15 782.732
2446920.467 310013.691 771.67512 -0.81 WIL-15 782.732
2446920.467 310013.691 771.56688 -0.86 WIL-15 782.732
2446920.467 310013.691 771.4652 -0.85 WIL-15 782.732
2446920.467 310013.691 771.4488 -0.57 WIL-15 782.732
2446970.606 309978.32 783.93 -1.26 WIL-16 783.93
```

```
2446970.606 309978.32 783.71352 -0.92 WIL-16 783.93
2446970.606 309978.32 783.58888 -0.79 WIL-16 783.93
2446970.606 309978.32 783.46752 -0.37 WIL-16 783.93
2446970.606 309978.32 783.31336 -1.17 WIL-16 783.93
2446970.606 309978.32 783.1428 -1.33 WIL-16 783.93
2446970.606 309978.32 782.97224 -0.91 WIL-16 783.93
2446970.606 309978.32 782.83448 -0.71 WIL-16 783.93
2446970.606 309978.32 782.6836 -0.86 WIL-16 783.93
2446970.606 309978.32 782.55568 -0.66 WIL-16 783.93
2446970.606 309978.32 782.43104 -0.66 WIL-16 783.93
2446970.606 309978.32 782.3064 -0.95 WIL-16 783.93
2446970.606 309978.32 782.18176 -1.07 WIL-16 783.93
2446970.606 309978.32 782.03088 -0.85 WIL-16 783.93
2446970.606 309978.32 781.90952 -0.89 WIL-16 783.93
2446970.606 309978.32 781.7816 -1.14 WIL-16 783.93
2446970.606 309978.32 781.65696 -0.63 WIL-16 783.93
2446970.606 309978.32 781.53232 -0.96 WIL-16 783.93
2446970.606 309978.32 781.42408 -0.82 WIL-16 783.93
2446970.606 309978.32 781.31912 -1.25 WIL-16 783.93
2446970.606 309978.32 781.18792 -0.73 WIL-16 783.93
2446970.606 309978.32 781.07968 -0.96 WIL-16 783.93
2446970.606 309978.32 780.97472 -0.89 WIL-16 783.93
2446970.606 309978.32 780.86976 -1.15 WIL-16 783.93
2446970.606 309978.32 780.7648 -0.92 WIL-16 783.93
2446970.606 309978.32 780.65984 -1.06 WIL-16 783.93
2446970.606 309978.32 780.5188 -1.03 WIL-16 783.93
2446970.606 309978.32 780.3876 -1.29 WIL-16 783.93
2446970.606 309978.32 780.24328 -1.46 WIL-16 783.93
2446970.606 309978.32 780.09896 -1.13 WIL-16 783.93
2446970.606 309978.32 779.95464 -1.26 WIL-16 783.93
2446970.606 309978.32 779.7972 -0.95 WIL-16 783.93
2446970.606 309978.32 779.62336 -1.34 WIL-16 783.93
2446970.606 309978.32 779.52168 -1.27 WIL-16 783.93
2446970.606 309978.32 779.36096 -1.19 WIL-16 783.93
2446970.606 309978.32 779.24288 -1.1 WIL-16 783.93
2446970.606 309978.32 779.11824 -1.3 WIL-16 783.93
2446970.606 309978.32 779.00016 -0.86 WIL-16 783.93
2446970.606 309978.32 778.85584 -1.25 WIL-16 783.93
2446970.606 309978.32 778.73448 -0.91 WIL-16 783.93
2446970.606 309978.32 778.61312 -1.14 WIL-16 783.93
2446970.606 309978.32 778.49176 -1.17 WIL-16 783.93
2446970.606 309978.32 778.3704 -1.2 WIL-16 783.93
2446970.606 309978.32 778.24904 -1.17 WIL-16 783.93
2446970.606 309978.32 778.10472 -1.12 WIL-16 783.93
2446970.606 309978.32 777.97352 -1.07 WIL-16 783.93
2446970.606 309978.32 777.83248 -1.29 WIL-16 783.93
2446970.606 309978.32 777.71112 -1.25 WIL-16 783.93
2446970.606 309978.32 777.57008 -1.16 WIL-16 783.93
2446970.606 309978.32 777.4192 -1.02 WIL-16 783.93
2446970.606 309978.32 777.30112 -1.36 WIL-16 783.93
2446970.606 309978.32 777.17976 -1.18 WIL-16 783.93
2446970.606 309978.32 777.0584 -1.07 WIL-16 783.93
2446970.606 309978.32 776.94032 -1.31 WIL-16 783.93
2446970.606 309978.32 776.79272 -1.1 WIL-16 783.93
2446970.606 309978.32 776.67136 -1.07 WIL-16 783.93
2446970.606 309978.32 776.53688 -1.39 WIL-16 783.93
2446970.606 309978.32 776.40896 -0.88 WIL-16 783.93
2446970.606 309978.32 776.29088 -1.32 WIL-16 783.93
2446970.606 309978.32 776.1892 -1.39 WIL-16 783.93
2446970.606 309978.32 776.04816 -1.43 WIL-16 783.93
2446970.606 309978.32 775.93992 -1.41 WIL-16 783.93
2446970.606 309978.32 775.80216 -1.41 WIL-16 783.93
2446970.606 309978.32 775.68736 -1.52 WIL-16 783.93
2446970.606 309978.32 775.58568 -1.11 WIL-16 783.93
2446970.606 309978.32 775.4676 -1.03 WIL-16 783.93
2446970.606 309978.32 775.3692 -0.61 WIL-16 783.93
2446970.606 309978.32 775.26424 -0.67 WIL-16 783.93
2446970.606 309978.32 775.11992 -0.81 WIL-16 783.93
2446970.606 309978.32 774.97888 -0.89 WIL-16 783.93
2446970.606 309978.32 774.87392 -1.31 WIL-16 783.93
2446970.606 309978.32 774.77224 -0.71 WIL-16 783.93
2446970.606 309978.32 774.6476 -1.14 WIL-16 783.93
2446970.606 309978.32 774.47376 -0.75 WIL-16 783.93
2446970.606 309978.32 774.30648 -0.52 WIL-16 783.93
2446970.606 309978.32 774.12936 -0.99 WIL-16 783.93
2446970.606 309978.32 774.0244 -0.94 WIL-16 783.93
2446970.606 309978.32 773.844 -0.84 WIL-16 783.93
2446970.606 309978.32 773.66688 -0.93 WIL-16 783.93
2446970.606 309978.32 773.48648 -0.61 WIL-16 783.93
2446970.606 309978.32 773.37496 -0.85 WIL-16 783.93
2446970.606 309978.32 773.19784 -0.76 WIL-16 783.93
2446970.606 309978.32 773.04696 -0.99 WIL-16 783.93
2446970.606 309978.32 772.8928 -0.9 WIL-16 783.93
2446970.606 309978.32 772.76816 -0.96 WIL-16 783.93
2446970.606 309978.32 772.6632 -1.23 WIL-16 783.93
2446970.606 309978.32 772.50576 -1.05 WIL-16 783.93
2446970.606 309978.32 772.3516 -0.68 WIL-16 783.93
2446970.606 309978.32 772.17448 -0.92 WIL-16 783.93
2446970.606 309978.32 772.07608 -1.06 WIL-16 783.93
2446970.606 309978.32 771.94488 -0.8 WIL-16 783.93
2446970.606 309978.32 771.81368 -0.92 WIL-16 783.93
2446970.606 309978.32 771.6792 -1.08 WIL-16 783.93
2446970.606 309978.32 771.5808 -0.91 WIL-16 783.93
2446970.606 309978.32 771.42992 -1.13 WIL-16 783.93
2446970.606 309978.32 771.28888 -1.02 WIL-16 783.93
2446970.606 309978.32 771.09864 -1.25 WIL-16 783.93
2446970.606 309978.32 771.00024 -0.6 WIL-16 783.93
2446970.606 309978.32 770.88544 -0.87 WIL-16 783.93
2446970.606 309978.32 770.75424 -1.13 WIL-16 783.93
2446970.606 309978.32 770.6132 -0.9 WIL-16 783.93
2446970.606 309978.32 770.482 -0.57 WIL-16 783.93
2446970.606 309978.32 770.34752 -1.17 WIL-16 783.93
```

```
2446970.606 309978.32 770.24912 -0.84 WIL-16 783.93
2446970.606 309978.32 770.09496 -1.46 WIL-16 783.93
2446970.606 309978.32 769.99656 -1.08 WIL-16 783.93
2446970.606 309978.32 769.84896 -1.22 WIL-16 783.93
2446970.606 309978.32 769.6948 -0.74 WIL-16 783.93
2446970.606 309978.32 769.5964 -0.94 WIL-16 783.93
2446970.606 309978.32 769.48488 -1.07 WIL-16 783.93
2446970.606 309978.32 769.334 -1.07 WIL-16 783.93
2446970.606 309978.32 769.1536 -1.53 WIL-16 783.93
2446970.606 309978.32 768.96008 -1.44 WIL-16 783.93
2446970.606 309978.32 768.84856 -1.3 WIL-16 783.93
2446970.606 309978.32 768.65176 -1.01 WIL-16 783.93
2446970.606 309978.32 768.45824 -1.28 WIL-16 783.93
2446970.606 309978.32 768.34344 -1.21 WIL-16 783.93
2446970.606 309978.32 768.1532 -1.31 WIL-16 783.93
2446970.606 309978.32 767.9564 -1.14 WIL-16 783.93
2446970.606 309978.32 767.84488 -1.27 WIL-16 783.93
2446970.606 309978.32 767.65136 -1.24 WIL-16 783.93
2446970.606 309978.32 767.45456 -1.15 WIL-16 783.93
2446970.606 309978.32 767.33976 -1.32 WIL-16 783.93
2446970.606 309978.32 767.16264 -0.91 WIL-16 783.93
2446970.606 309978.32 767.02816 -0.76 WIL-16 783.93
2446970.606 309978.32 766.92976 -0.99 WIL-16 783.93
2446970.606 309978.32 766.81496 -1.38 WIL-16 783.93
2446970.606 309978.32 766.81168 -0.93 WIL-16 783.93
2447032.52 309968.117 783.728 0.28 WIL-17 783.728
2447032.52 309968.117 783.5476 -0.75 WIL-17 783.728
2447032.52 309968.117 783.33768 -0.53 WIL-17 783.728
2447032.52 309968.117 783.154 -0.53 WIL-17 783.728
2447032.52 309968.117 782.88176 -0.86 WIL-17 783.728
2447032.52 309968.117 782.78336 -0.78 WIL-17 783.728
2447032.52 309968.117 782.68496 -0.54 WIL-17 783.728
2447032.52 309968.117 782.5472 -0.66 WIL-17 783.728
2447032.52 309968.117 782.40944 -0.46 WIL-17 783.728
2447032.52 309968.117 782.27824 -0.72 WIL-17 783.728
2447032.52 309968.117 782.13064 -0.78 WIL-17 783.728
2447032.52 309968.117 781.97976 -0.68 WIL-17 783.728
2447032.52 309968.117 781.83216 -0.72 WIL-17 783.728
2447032.52 309968.117 781.70096 -0.73 WIL-17 783.728
2447032.52 309968.117 781.56648 -0.53 WIL-17 783.728
2447032.52 309968.117 781.44184 -0.71 WIL-17 783.728
2447032.52 309968.117 781.32048 -0.69 WIL-17 783.728
2447032.52 309968.117 781.22208 -0.77 WIL-17 783.728
2447032.52 309968.117 781.1204 -0.66 WIL-17 783.728
2447032.52 309968.117 781.01544 -0.73 WIL-17 783.728
2447032.52 309968.117 780.91048 -0.54 WIL-17 783.728
2447032.52 309968.117 780.77272 -0.8 WIL-17 783.728
2447032.52 309968.117 780.65136 -0.59 WIL-17 783.728
2447032.52 309968.117 780.52344 -0.68 WIL-17 783.728
2447032.52 309968.117 780.3988 -0.63 WIL-17 783.728
2447032.52 309968.117 780.27088 -0.53 WIL-17 783.728
2447032.52 309968.117 780.17248 -0.74 WIL-17 783.728
2447032.52 309968.117 780.04456 -0.61 WIL-17 783.728
2447032.52 309968.117 779.9068 -0.72 WIL-17 783.728
2447032.52 309968.117 779.76904 -0.5 WIL-17 783.728
2447032.52 309968.117 779.65752 -0.82 WIL-17 783.728
2447032.52 309968.117 779.546 -0.65 WIL-17 783.728
2447032.52 309968.117 779.4476 -0.61 WIL-17 783.728
2447032.52 309968.117 779.33936 -0.69 WIL-17 783.728
2447032.52 309968.117 779.19832 -0.61 WIL-17 783.728
2447032.52 309968.117 779.06712 -0.61 WIL-17 783.728
2447032.52 309968.117 778.96872 -0.89 WIL-17 783.728
2447032.52 309968.117 778.8572 -0.55 WIL-17 783.728
2447032.52 309968.117 778.73584 -0.67 WIL-17 783.728
2447032.52 309968.117 778.63416 -0.9 WIL-17 783.728
2447032.52 309968.117 778.53576 -0.69 WIL-17 783.728
2447032.52 309968.117 778.40128 -1.02 WIL-17 783.728
2447032.52 309968.117 778.28976 -0.63 WIL-17 783.728
2447032.52 309968.117 778.1684 -0.85 WIL-17 783.728
2447032.52 309968.117 778.05032 -0.66 WIL-17 783.728
2447032.52 309968.117 777.9224 -0.83 WIL-17 783.728
2447032.52 309968.117 777.78464 -0.73 WIL-17 783.728
2447032.52 309968.117 777.62392 -0.62 WIL-17 783.728
2447032.52 309968.117 777.48944 -0.74 WIL-17 783.728
2447032.52 309968.117 777.35496 -0.56 WIL-17 783.728
2447032.52 309968.117 777.2172 -0.87 WIL-17 783.728
2447032.52 309968.117 777.08272 -0.62 WIL-17 783.728
2447032.52 309968.117 776.89904 -0.81 WIL-17 783.728
2447032.52 309968.117 776.74488 -0.52 WIL-17 783.728
2447032.52 309968.117 776.62024 -0.57 WIL-17 783.728
2447032.52 309968.117 776.51528 -0.88 WIL-17 783.728
2447032.52 309968.117 776.38736 -0.73 WIL-17 783.728
2447032.52 309968.117 776.27912 -0.59 WIL-17 783.728
2447032.52 309968.117 776.17416 -0.68 WIL-17 783.728
2447032.52 309968.117 776.04624 -0.69 WIL-17 783.728
2447032.52 309968.117 775.9216 -0.83 WIL-17 783.728
2447032.52 309968.117 775.75104 -0.55 WIL-17 783.728
2447032.52 309968.117 775.60344 -0.87 WIL-17 783.728
2447032.52 309968.117 775.45912 -0.58 WIL-17 783.728
2447032.52 309968.117 775.31808 -0.75 WIL-17 783.728
2447032.52 309968.117 775.18032 -0.57 WIL-17 783.728
2447032.52 309968.117 775.02616 -0.69 WIL-17 783.728
2447032.52 309968.117 774.89496 -0.74 WIL-17 783.728
2447032.52 309968.117 774.73752 -0.64 WIL-17 783.728
2447032.52 309968.117 774.58336 -0.78 WIL-17 783.728
2447032.52 309968.117 774.44232 -0.57 WIL-17 783.728
2447032.52 309968.117 774.32752 -0.57 WIL-17 783.728
2447032.52 309968.117 774.20288 -0.72 WIL-17 783.728
2447032.52 309968.117 774.08152 -0.53 WIL-17 783.728
2447032.52 309968.117 773.95688 -0.72 WIL-17 783.728
2447032.52 309968.117 773.83224 -0.53 WIL-17 783.728
2447032.52 309968.117 773.68464 -0.78 WIL-17 783.728
```

```
2447032.52 309968.117 773.56656 -0.59 WIL-17 783.728
2447032.52 309968.117 773.42552 -0.91 WIL-17 783.728
2447032.52 309968.117 773.25824 -0.55 WIL-17 783.728
2447032.52 309968.117 773.11392 -0.84 WIL-17 783.728
2447032.52 309968.117 772.986 -0.55 WIL-17 783.728
2447032.52 309968.117 772.8712 -0.64 WIL-17 783.728
2447032.52 309968.117 772.68096 -0.73 WIL-17 783.728
2447032.52 309968.117 772.57928 -0.53 WIL-17 783.728
2447032.52 309968.117 772.39232 -0.82 WIL-17 783.728
2447032.52 309968.117 772.20208 -0.65 WIL-17 783.728
2447032.52 309968.117 772.084 -0.6 WIL-17 783.728
2447032.52 309968.117 771.89376 -0.88 WIL-17 783.728
2447032.52 309968.117 771.70352 -0.46 WIL-17 783.728
2447032.52 309968.117 771.58544 -0.63 WIL-17 783.728
2447032.52 309968.117 771.39848 -0.73 WIL-17 783.728
2447032.52 309968.117 771.21808 -0.54 WIL-17 783.728
2447032.52 309968.117 771.02456 -0.69 WIL-17 783.728
2447032.52 309968.117 770.83432 -0.58 WIL-17 783.728
2447032.52 309968.117 770.71624 -0.66 WIL-17 783.728
2447032.52 309968.117 770.526 -0.88 WIL-17 783.728
2447032.52 309968.117 770.33576 -0.55 WIL-17 783.728
2447032.52 309968.117 770.21768 -0.66 WIL-17 783.728
2447032.52 309968.117 770.07008 -0.68 WIL-17 783.728
2447032.52 309968.117 769.90936 -0.55 WIL-17 783.728
2447032.52 309968.117 769.76176 -0.21 WIL-17 783.728
2447032.52 309968.117 769.60432 -0.5 WIL-17 783.728
2447032.52 309968.117 769.4764 -0.33 WIL-17 783.728
2447032.52 309968.117 769.32552 -0.53 WIL-17 783.728
2447032.52 309968.117 769.15496 -0.36 WIL-17 783.728
2447032.52 309968.117 769.05 -0.42 WIL-17 783.728
2447032.52 309968.117 768.92208 -0.39 WIL-17 783.728
2447032.52 309968.117 768.79088 -0.12 WIL-17 783.728
2447032.52 309968.117 768.63672 -0.51 WIL-17 783.728
2447032.52 309968.117 768.52192 -0.51 WIL-17 783.728
2447032.52 309968.117 768.35136 -0.41 WIL-17 783.728
2447032.52 309968.117 768.19064 -0.7 WIL-17 783.728
2447032.52 309968.117 768.0824 -0.32 WIL-17 783.728
2447032.52 309968.117 767.89544 -0.47 WIL-17 783.728
2447032.52 309968.117 767.71176 -0.59 WIL-17 783.728
2447032.52 309968.117 767.53136 -0.19 WIL-17 783.728
2447032.52 309968.117 767.4264 -0.68 WIL-17 783.728
2447032.52 309968.117 767.24272 -0.5 WIL-17 783.728
2447032.52 309968.117 767.1312 -0.42 WIL-17 783.728
2447032.52 309968.117 766.94096 -0.53 WIL-17 783.728
2447032.52 309968.117 766.8032 -0.37 WIL-17 783.728
2447032.52 309968.117 766.69168 -0.7 WIL-17 783.728
2447032.52 309968.117 766.50472 -0.41 WIL-17 783.728
2447032.52 309968.117 766.31448 -0.65 WIL-17 783.728
2447032.52 309968.117 766.20624 -0.71 WIL-17 783.728
2447032.52 309968.117 766.03896 -0.57 WIL-17 783.728
2447032.52 309968.117 765.8684 -0.54 WIL-17 783.728
2447032.52 309968.117 765.71096 -0.44 WIL-17 783.728
2447032.52 309968.117 765.55024 -0.64 WIL-17 783.728
2447032.52 309968.117 765.36328 -0.48 WIL-17 783.728
2447032.52 309968.117 765.20256 -0.48 WIL-17 783.728
2447032.52 309968.117 765.03856 -0.49 WIL-17 783.728
2447032.52 309968.117 764.94016 -0.41 WIL-17 783.728
2447032.52 309968.117 764.75976 -0.62 WIL-17 783.728
2447032.52 309968.117 764.56624 -0.27 WIL-17 783.728
2447032.52 309968.117 764.45144 -0.26 WIL-17 783.728
2447032.52 309968.117 764.34648 -0.55 WIL-17 783.728
2447032.52 309968.117 764.21856 -0.39 WIL-17 783.728
2447032.52 309968.117 764.07752 -0.46 WIL-17 783.728
2447032.52 309968.117 763.90368 -0.29 WIL-17 783.728
2447032.52 309968.117 763.78232 -0.28 WIL-17 783.728
2447032.52 309968.117 763.67408 -0.53 WIL-17 783.728
2447032.52 309968.117 763.49368 -0.31 WIL-17 783.728
2447032.52 309968.117 763.34608 -0.34 WIL-17 783.728
2447032.52 309968.117 763.24768 -0.53 WIL-17 783.728
2447032.52 309968.117 763.09352 -0.4 WIL-17 783.728
2447032.52 309968.117 762.9492 -0.41 WIL-17 783.728
2447032.52 309968.117 762.84424 -0.6 WIL-17 783.728
2447032.52 309968.117 762.66056 -0.2 WIL-17 783.728
2447032.52 309968.117 762.55888 -0.28 WIL-17 783.728
2447032.52 309968.117 762.38504 -0.4 WIL-17 783.728
2447032.52 309968.117 762.1948 -0.37 WIL-17 783.728
2447032.52 309968.117 762.07672 -0.55 WIL-17 783.728
2447032.52 309968.117 761.8832 -0.45 WIL-17 783.728
2447032.52 309968.117 761.7684 -0.19 WIL-17 783.728
2447032.52 309968.117 761.56832 -0.4 WIL-17 783.728
2447032.52 309968.117 761.37152 -0.28 WIL-17 783.728
2447032.52 309968.117 761.25672 -0.15 WIL-17 783.728
2447032.52 309968.117 761.05992 -0.49 WIL-17 783.728
2447032.52 309968.117 760.932 -0.37 WIL-17 783.728
2447032.52 309968.117 760.74504 -0.13 WIL-17 783.728
2447032.52 309968.117 760.5548 -0.62 WIL-17 783.728
2447032.52 309968.117 760.44 -0.32 WIL-17 783.728
2447032.52 309968.117 760.276 -0.36 WIL-17 783.728
2447032.52 309968.117 760.1776 -0.31 WIL-17 783.728
2447032.52 309968.117 760.14152 -0.29 WIL-17 783.728
2447091.815 309977.165 784.799 0.73 WIL-18 784.799
2447091.815 309977.165 784.69732 1.07 WIL-18 784.799
2447091.815 309977.165 784.52348 0.85 WIL-18 784.799
2447091.815 309977.165 784.3562 0.64 WIL-18 784.799
2447091.815 309977.165 784.13316 1.14 WIL-18 784.799
2447091.815 309977.165 784.00524 0.33 WIL-18 784.799
2447091.815 309977.165 783.83796 0.5 WIL-18 784.799
2447091.815 309977.165 783.55916 1.06 WIL-18 784.799
2447091.815 309977.165 783.39516 0.79 WIL-18 784.799
2447091.815 309977.165 783.34268 0.29 WIL-18 784.799
2447091.815 309977.165 783.3394 0.26 WIL-18 784.799
2447091.815 309977.165 783.241 1.29 WIL-18 784.799
```

```
2447091.815 309977.165 783.13932 2.1 WIL-18 784.799
2447091.815 309977.165 783.04092 1.04 WIL-18 784.799
2447091.815 309977.165 782.93268 1.56 WIL-18 784.799
2447091.815 309977.165 782.8146 2.04 WIL-18 784.799
2447091.815 309977.165 782.7162 1.83 WIL-18 784.799
2447091.815 309977.165 782.59484 0.94 WIL-18 784.799
2447091.815 309977.165 782.4866 0.5 WIL-18 784.799
2447091.815 309977.165 782.38492 0.79 WIL-18 784.799
2447091.815 309977.165 782.26028 0.63 WIL-18 784.799
2447091.815 309977.165 782.13236 0.73 WIL-18 784.799
2447091.815 309977.165 782.00772 0.73 WIL-18 784.799
2447091.815 309977.165 781.89948 1.02 WIL-18 784.799
2447091.815 309977.165 781.77156 0.42 WIL-18 784.799
2447091.815 309977.165 781.6338 0.64 WIL-18 784.799
2447091.815 309977.165 781.5354 0.35 WIL-18 784.799
2447091.815 309977.165 781.38452 0.39 WIL-18 784.799
2447091.815 309977.165 781.23692 0.78 WIL-18 784.799
2447091.815 309977.165 781.07948 0.55 WIL-18 784.799
2447091.815 309977.165 780.97124 0.57 WIL-18 784.799
2447091.815 309977.165 780.92532 0.17 WIL-18 784.799
2447091.815 309977.165 780.82036 0.18 WIL-18 784.799
2447091.815 309977.165 780.699 0.75 WIL-18 784.799
2447091.815 309977.165 780.66948 0.13 WIL-18 784.799
2447091.815 309977.165 780.56124 0.45 WIL-18 784.799
2447091.815 309977.165 780.41692 0.33 WIL-18 784.799
2447091.815 309977.165 780.26932 0.66 WIL-18 784.799
2447091.815 309977.165 780.17092 0.67 WIL-18 784.799
2447091.815 309977.165 780.01676 0.75 WIL-18 784.799
2447091.815 309977.165 779.9118 0.62 WIL-18 784.799
2447091.815 309977.165 779.80684 0.51 WIL-18 784.799
2447091.815 309977.165 779.70188 0.5 WIL-18 784.799
2447091.815 309977.165 779.59692 0.55 WIL-18 784.799
2447091.815 309977.165 779.469 0.32 WIL-18 784.799
2447091.815 309977.165 779.36404 0.5 WIL-18 784.799
2447091.815 309977.165 779.2558 0.62 WIL-18 784.799
2447091.815 309977.165 779.1246 0.29 WIL-18 784.799
2447091.815 309977.165 778.98684 0.23 WIL-18 784.799
2447091.815 309977.165 778.95076 0.04 WIL-18 784.799
2447091.815 309977.165 778.83596 0.07 WIL-18 784.799
2447091.815 309977.165 778.67852 0.31 WIL-18 784.799
2447091.815 309977.165 778.57684 0.34 WIL-18 784.799
2447091.815 309977.165 778.42268 0.25 WIL-18 784.799
2447091.815 309977.165 778.26852 0.21 WIL-18 784.799
2447091.815 309977.165 778.17012 -0.02 WIL-18 784.799
2447091.815 309977.165 778.01596 0.44 WIL-18 784.799
2447091.815 309977.165 777.90444 0.18 WIL-18 784.799
2447091.815 309977.165 777.79948 0.63 WIL-18 784.799
2447091.815 309977.165 777.69124 0.54 WIL-18 784.799
2447091.815 309977.165 777.56332 0.33 WIL-18 784.799
2447091.815 309977.165 777.46492 -0.02 WIL-18 784.799
2447091.815 309977.165 777.35996 0.26 WIL-18 784.799
2447091.815 309977.165 777.25828 -0.01 WIL-18 784.799
2447091.815 309977.165 777.13692 0.11 WIL-18 784.799
2447091.815 309977.165 777.0254 0.11 WIL-18 784.799
2447091.815 309977.165 776.91388 0.18 WIL-18 784.799
2447091.815 309977.165 776.79908 0.32 WIL-18 784.799
2447091.815 309977.165 776.681 -0.04 WIL-18 784.799
2447091.815 309977.165 776.56292 0.14 WIL-18 784.799
2447091.815 309977.165 776.4186 0.42 WIL-18 784.799
2447091.815 309977.165 776.37268 0.03 WIL-18 784.799
2447091.815 309977.165 776.25788 -0.22 WIL-18 784.799
2447091.815 309977.165 776.12012 0.16 WIL-18 784.799
2447091.815 309977.165 776.01844 0.24 WIL-18 784.799
2447091.815 309977.165 775.89708 0.04 WIL-18 784.799
2447091.815 309977.165 775.7954 -0.06 WIL-18 784.799
2447091.815 309977.165 775.69372 -0.19 WIL-18 784.799
2447091.815 309977.165 775.58876 -0.04 WIL-18 784.799
2447091.815 309977.165 775.44444 0.42 WIL-18 784.799
2447091.815 309977.165 775.31652 0.09 WIL-18 784.799
2447091.815 309977.165 775.19516 0.15 WIL-18 784.799
2447091.815 309977.165 775.0738 0.03 WIL-18 784.799
2447091.815 309977.165 774.94588 0.16 WIL-18 784.799
2447091.815 309977.165 774.81796 0.19 WIL-18 784.799
2447091.815 309977.165 774.66708 0.12 WIL-18 784.799
2447091.815 309977.165 774.549 0.17 WIL-18 784.799
2447091.815 309977.165 774.4342 0.01 WIL-18 784.799
2447091.815 309977.165 774.31612 0 WIL-18 784.799
2447091.815 309977.165 774.23412 0.27 WIL-18 784.799
2447091.815 309977.165 774.13572 0.15 WIL-18 784.799
2447091.815 309977.165 774.03732 0 WIL-18 784.799
2447091.815 309977.165 773.99796 0.12 WIL-18 784.799
2447091.815 309977.165 773.8766 -0.08 WIL-18 784.799
2447091.815 309977.165 773.77492 0.2 WIL-18 784.799
2447091.815 309977.165 773.76836 0.08 WIL-18 784.799
2447091.815 309977.165 773.68308 0.07 WIL-18 784.799
2447091.815 309977.165 773.60108 0.05 WIL-18 784.799
2447091.815 309977.165 773.483 -0.07 WIL-18 784.799
2447091.815 309977.165 773.33212 0.03 WIL-18 784.799
2447091.815 309977.165 773.20748 0.09 WIL-18 784.799
2447091.815 309977.165 773.08284 0.27 WIL-18 784.799
2447091.815 309977.165 772.9582 0.17 WIL-18 784.799
2447091.815 309977.165 772.83028 0.1 WIL-18 784.799
2447091.815 309977.165 772.70564 -0.03 WIL-18 784.799
2447091.815 309977.165 772.55476 0.04 WIL-18 784.799
2447091.815 309977.165 772.43012 0.1 WIL-18 784.799
2447091.815 309977.165 772.30548 -0.03 WIL-18 784.799
2447091.815 309977.165 772.1874 0.05 WIL-18 784.799
2447091.815 309977.165 772.0726 0.6 WIL-18 784.799
2447091.815 309977.165 771.96764 -0.02 WIL-18 784.799
2447091.815 309977.165 771.85612 0.08 WIL-18 784.799
2447091.815 309977.165 771.74788 0.06 WIL-18 784.799
2447091.815 309977.165 771.6462 0.07 WIL-18 784.799
```

```
2447091.815 309977.165 771.53468 0.16 WIL-18 784.799
2447091.815 309977.165 771.48876 0.09 WIL-18 784.799
2447091.815 309977.165 771.41004 0 WIL-18 784.799
2447091.815 309977.165 771.36084 0.08 WIL-18 784.799
2447091.815 309977.165 771.20996 0.55 WIL-18 784.799
2447091.815 309977.165 771.0886 -0.1 WIL-18 784.799
2447091.815 309977.165 770.98036 0.02 WIL-18 784.799
2447091.815 309977.165 770.85572 0.07 WIL-18 784.799
2447091.815 309977.165 770.71796 -0.74 WIL-18 784.799
2447091.815 309977.165 770.61956 -0.57 WIL-18 784.799
2447091.815 309977.165 770.50148 -0.67 WIL-18 784.799
2447091.815 309977.165 770.37684 0.01 WIL-18 784.799
2447091.815 309977.165 770.27188 -0.12 WIL-18 784.799
2447091.815 309977.165 770.16692 -0.43 WIL-18 784.799
2447091.815 309977.165 770.0554 -0.17 WIL-18 784.799
2447091.815 309977.165 769.92748 -0.21 WIL-18 784.799
2447091.815 309977.165 769.76676 0.11 WIL-18 784.799
2447091.815 309977.165 769.63228 -0.1 WIL-18 784.799
2447091.815 309977.165 769.50108 0.25 WIL-18 784.799
2447091.815 309977.165 769.37316 -0.02 WIL-18 784.799
2447091.815 309977.165 769.26492 -0.07 WIL-18 784.799
2447091.815 309977.165 769.16324 -0.19 WIL-18 784.799
2447091.815 309977.165 769.055 -0.22 WIL-18 784.799
2447091.815 309977.165 768.9074 0.1 WIL-18 784.799
2447091.815 309977.165 768.809 0.11 WIL-18 784.799
2447091.815 309977.165 768.70076 0.16 WIL-18 784.799
2447091.815 309977.165 768.59908 0.03 WIL-18 784.799
2447091.815 309977.165 768.46788 0.36 WIL-18 784.799
2447091.815 309977.165 768.35636 0.45 WIL-18 784.799
2447091.815 309977.165 768.23172 1.47 WIL-18 784.799
2447091.815 309977.165 768.10052 2.63 WIL-18 784.799
2447091.815 309977.165 767.9726 5.38 WIL-18 784.799
2447091.815 309977.165 767.81516 1.93 WIL-18 784.799
2447091.815 309977.165 767.68724 2.45 WIL-18 784.799
2447091.815 309977.165 767.57572 4.84 WIL-18 784.799
2447091.815 309977.165 767.43468 2.16 WIL-18 784.799
2447091.815 309977.165 767.31004 2.49 WIL-18 784.799
2447091.815 309977.165 767.21164 3.23 WIL-18 784.799
2447091.815 309977.165 767.05748 2.95 WIL-18 784.799
2447091.815 309977.165 766.93284 3.79 WIL-18 784.799
2447091.815 309977.165 766.81476 2.44 WIL-18 784.799
2447091.815 309977.165 766.68684 4.01 WIL-18 784.799
2447091.815 309977.165 766.5622 4.36 WIL-18 784.799
2447091.815 309977.165 766.431 2.31 WIL-18 784.799
2447091.815 309977.165 766.32932 0.2 WIL-18 784.799
2447091.815 309977.165 766.23092 1.77 WIL-18 784.799
2447091.815 309977.165 766.12596 2.79 WIL-18 784.799
2447091.815 309977.165 766.01772 1.22 WIL-18 784.799
2447091.815 309977.165 765.89308 0.68 WIL-18 784.799
2447091.815 309977.165 765.78812 0.42 WIL-18 784.799
2447091.815 309977.165 765.6602 0.13 WIL-18 784.799
2447091.815 309977.165 765.53556 -0.07 WIL-18 784.799
2447091.815 309977.165 765.3814 1.2 WIL-18 784.799
2447091.815 309977.165 765.27316 1.37 WIL-18 784.799
2447091.815 309977.165 765.15836 1.3 WIL-18 784.799
2447091.815 309977.165 765.04028 1.21 WIL-18 784.799
2447091.815 309977.165 764.8894 1.51 WIL-18 784.799
2447091.815 309977.165 764.7582 1.45 WIL-18 784.799
2447091.815 309977.165 764.63028 1.04 WIL-18 784.799
2447091.815 309977.165 764.50564 1.13 WIL-18 784.799
2447091.815 309977.165 764.38428 1.67 WIL-18 784.799
2447091.815 309977.165 764.2334 0.24 WIL-18 784.799
2447091.815 309977.165 764.11532 0.1 WIL-18 784.799
2447091.815 309977.165 764.02676 0.21 WIL-18 784.799
2447091.815 309977.165 763.9382 0 WIL-18 784.799
2447091.815 309977.165 763.83324 -1.3 WIL-18 784.799
2447091.815 309977.165 763.70532 -0.5 WIL-18 784.799
2447091.815 309977.165 763.59052 -0.43 WIL-18 784.799
2447091.815 309977.165 763.46916 -0.5 WIL-18 784.799
2447091.815 309977.165 763.34452 -0.56 WIL-18 784.799
2447091.815 309977.165 763.22316 -0.69 WIL-18 784.799
2447091.815 309977.165 763.07884 -0.5 WIL-18 784.799
2447091.815 309977.165 762.96076 -0.6 WIL-18 784.799
2447091.815 309977.165 762.8394 -0.53 WIL-18 784.799
2447091.815 309977.165 762.71804 -0.64 WIL-18 784.799
2447091.815 309977.165 762.59012 -0.58 WIL-18 784.799
2447091.815 309977.165 762.43268 -0.46 WIL-18 784.799
2447091.815 309977.165 762.30476 -0.75 WIL-18 784.799
2447091.815 309977.165 762.16044 0.53 WIL-18 784.799
2447091.815 309977.165 762.04892 0.05 WIL-18 784.799
2447091.815 309977.165 761.94724 0.38 WIL-18 784.799
2447091.815 309977.165 761.89804 0.24 WIL-18 784.799
2447159.974 309974.824 785.722 2.8 WIL-19 785.722
2447159.974 309974.824 785.55472 1.49 WIL-19 785.722
2447159.974 309974.824 785.43992 1.36 WIL-19 785.722
2447159.974 309974.824 785.10864 1.48 WIL-19 785.722
2447159.974 309974.824 784.96432 1.53 WIL-19 785.722
2447159.974 309974.824 784.8528 1.44 WIL-19 785.722
2447159.974 309974.824 784.57072 1.42 WIL-19 785.722
2447159.974 309974.824 784.39688 1.39 WIL-19 785.722
2447159.974 309974.824 784.25256 1.37 WIL-19 785.722
2447159.974 309974.824 784.13776 2.11 WIL-19 785.722
2447159.974 309974.824 784.03936 1.7 WIL-19 785.722
2447159.974 309974.824 783.91472 1.89 WIL-19 785.722
2447159.974 309974.824 783.79336 2.03 WIL-19 785.722
2447159.974 309974.824 783.6884 1.71 WIL-19 785.722
2447159.974 309974.824 783.57688 1.53 WIL-19 785.722
2447159.974 309974.824 783.47848 1.54 WIL-19 785.722
2447159.974 309974.824 783.36696 1.5 WIL-19 785.722
2447159.974 309974.824 783.26856 1.45 WIL-19 785.722
2447159.974 309974.824 783.14392 1.44 WIL-19 785.722
2447159.974 309974.824 783.00944 1.45 WIL-19 785.722
```

```
2447159.974 309974.824 782.89792 1.32 WIL-19 785.722
2447159.974 309974.824 782.77984 1.38 WIL-19 785.722
2447159.974 309974.824 782.64208 1.26 WIL-19 785.722
2447159.974 309974.824 782.50104 1.25 WIL-19 785.722
2447159.974 309974.824 782.33048 1.6 WIL-19 785.722
2447159.974 309974.824 782.1796 1.47 WIL-19 785.722
2447159.974 309974.824 782.032 1.6 WIL-19 785.722
2447159.974 309974.824 781.91392 2.15 WIL-19 785.722
2447159.974 309974.824 781.78272 1.78 WIL-19 785.722
2447159.974 309974.824 781.6548 1.77 WIL-19 785.722
2447159.974 309974.824 781.53016 1.92 WIL-19 785.722
2447159.974 309974.824 781.43176 1.47 WIL-19 785.722
2447159.974 309974.824 781.32352 1.26 WIL-19 785.722
2447159.974 309974.824 781.19232 1.22 WIL-19 785.722
2447159.974 309974.824 781.07424 1.28 WIL-19 785.722
2447159.974 309974.824 780.97256 1.36 WIL-19 785.722
2447159.974 309974.824 780.85776 1.39 WIL-19 785.722
2447159.974 309974.824 780.70688 1.36 WIL-19 785.722
2447159.974 309974.824 780.57896 1.56 WIL-19 785.722
2447159.974 309974.824 780.474 1.39 WIL-19 785.722
2447159.974 309974.824 780.32968 1.38 WIL-19 785.722
2447159.974 309974.824 780.20176 1.57 WIL-19 785.722
2447159.974 309974.824 780.05744 1.27 WIL-19 785.722
2447159.974 309974.824 779.91968 1.3 WIL-19 785.722
2447159.974 309974.824 779.78192 1.33 WIL-19 785.722
2447159.974 309974.824 779.68024 1.26 WIL-19 785.722
2447159.974 309974.824 779.55232 1.24 WIL-19 785.722
2447159.974 309974.824 779.41456 1.32 WIL-19 785.722
2447159.974 309974.824 779.29976 1.31 WIL-19 785.722
2447159.974 309974.824 779.18496 1.2 WIL-19 785.722
2447159.974 309974.824 779.07344 1.37 WIL-19 785.722
2447159.974 309974.824 778.92912 1.31 WIL-19 785.722
2447159.974 309974.824 778.80776 1.34 WIL-19 785.722
2447159.974 309974.824 778.6864 1.35 WIL-19 785.722
2447159.974 309974.824 778.5716 1.34 WIL-19 785.722
2447159.974 309974.824 778.43712 1.38 WIL-19 785.722
2447159.974 309974.824 778.32232 1.56 WIL-19 785.722
2447159.974 309974.824 778.28624 1.51 WIL-19 785.722
2447151.884 310048.513 787.501 2.24 WIL-20 787.501
2447151.884 310048.513 787.29764 1.09 WIL-20 787.501
2447151.884 310048.513 787.17628 1.29 WIL-20 787.501
2447151.884 310048.513 786.93356 1.39 WIL-20 787.501
2447151.884 310048.513 786.69084 0.92 WIL-20 787.501
2447151.884 310048.513 786.49076 1.06 WIL-20 787.501
2447151.884 310048.513 786.37924 0.89 WIL-20 787.501
2447151.884 310048.513 786.15292 0.94 WIL-20 787.501
2447151.884 310048.513 785.96924 0.97 WIL-20 787.501
2447151.884 310048.513 785.67404 0.99 WIL-20 787.501
2447151.884 310048.513 785.57236 1.12 WIL-20 787.501
2447151.884 310048.513 785.44116 0.87 WIL-20 787.501
2447151.884 310048.513 785.11972 0.89 WIL-20 787.501
2447151.884 310048.513 784.89668 0.81 WIL-20 787.501
2447151.884 310048.513 784.78516 1.01 WIL-20 787.501
2447151.884 310048.513 784.67364 1.5 WIL-20 787.501
2447151.884 310048.513 784.56212 1.26 WIL-20 787.501
2447151.884 310048.513 784.46044 1.17 WIL-20 787.501
2447151.884 310048.513 784.36204 1.15 WIL-20 787.501
2447151.884 310048.513 784.26364 0.94 WIL-20 787.501
2447151.884 310048.513 784.11276 0.78 WIL-20 787.501
2447151.884 310048.513 784.00452 0.88 WIL-20 787.501
2447151.884 310048.513 783.87004 1.02 WIL-20 787.501
2447151.884 310048.513 783.75524 0.77 WIL-20 787.501
2447151.884 310048.513 783.62404 0.87 WIL-20 787.501
2447151.884 310048.513 783.50268 0.79 WIL-20 787.501
2447151.884 310048.513 783.39444 0.88 WIL-20 787.501
2447151.884 310048.513 783.2862 0.83 WIL-20 787.501
2447151.884 310048.513 783.17796 0.77 WIL-20 787.501
2447151.884 310048.513 783.06972 0.74 WIL-20 787.501
2447151.884 310048.513 782.9582 0.83 WIL-20 787.501
2447151.884 310048.513 782.83356 0.84 WIL-20 787.501
2447151.884 310048.513 782.69252 0.65 WIL-20 787.501
2447151.884 310048.513 782.53508 0.65 WIL-20 787.501
2447151.884 310048.513 782.40716 0.79 WIL-20 787.501
2447151.884 310048.513 782.30876 0.81 WIL-20 787.501
2447151.884 310048.513 782.17756 0.74 WIL-20 787.501
2447151.884 310048.513 781.98404 0.77 WIL-20 787.501
2447151.884 310048.513 781.82332 0.73 WIL-20 787.501
2447151.884 310048.513 781.67572 0.91 WIL-20 787.501
2447151.884 310048.513 781.5314 0.88 WIL-20 787.501
2447151.884 310048.513 781.36412 0.63 WIL-20 787.501
2447151.884 310048.513 781.24604 0.85 WIL-20 787.501
2447151.884 310048.513 781.08532 0.83 WIL-20 787.501
2447151.884 310048.513 780.98364 0.86 WIL-20 787.501
2447151.884 310048.513 780.87868 0.86 WIL-20 787.501
2447151.884 310048.513 780.76716 8.51 WIL-20 787.501
2447151.884 310048.513 780.60972 4.71 WIL-20 787.501
2447151.884 310048.513 780.41948 1.69 WIL-20 787.501
2447151.884 310048.513 780.3178 0.84 WIL-20 787.501
2447151.884 310048.513 780.15052 0.7 WIL-20 787.501
2447151.884 310048.513 780.04228 0.94 WIL-20 787.501
2447151.884 310048.513 779.87172 0.74 WIL-20 787.501
2447151.884 310048.513 779.69788 0.73 WIL-20 787.501
2447151.884 310048.513 779.58308 0.62 WIL-20 787.501
2447151.884 310048.513 779.465 0.75 WIL-20 787.501
2447151.884 310048.513 779.33052 0.87 WIL-20 787.501
2447151.884 310048.513 779.22228 0.77 WIL-20 787.501
2447151.884 310048.513 779.11404 0.72 WIL-20 787.501
2447151.884 310048.513 779.00252 0.76 WIL-20 787.501
2447151.884 310048.513 778.86476 0.73 WIL-20 787.501
2447151.884 310048.513 778.74996 0.68 WIL-20 787.501
2447151.884 310048.513 778.70732 0.79 WIL-20 787.501
2447154.859 310099.07 789.248 -0.5 WIL-21 789.248
```

```
2447154.859 310099.07 789.14632 -0.07 WIL-21 789.248
2447154.859 310099.07 788.74616 -0.21 WIL-21 789.248
2447154.859 310099.07 788.63136 -0.71 WIL-21 789.248
2447154.859 310099.07 788.50344 -0.11 WIL-21 789.248
2447154.859 310099.07 788.34272 0.02 WIL-21 789.248
2447154.859 310099.07 788.21152 0.13 WIL-21 789.248
2447154.859 310099.07 788.04096 0.14 WIL-21 789.248
2447154.859 310099.07 787.9032 -0.25 WIL-21 789.248
2447154.859 310099.07 787.73592 -0.19 WIL-21 789.248
2447154.859 310099.07 787.55552 0.04 WIL-21 789.248
2447154.859 310099.07 787.38824 -0.16 WIL-21 789.248
2447154.859 310099.07 787.28328 -0.61 WIL-21 789.248
2447154.859 310099.07 787.1816 -0.75 WIL-21 789.248
2447154.859 310099.07 787.07664 -0.07 WIL-21 789.248
2447154.859 310099.07 786.97496 -0.12 WIL-21 789.248
2447154.859 310099.07 786.84376 0.11 WIL-21 789.248
2447154.859 310099.07 786.72896 0.01 WIL-21 789.248
2447154.859 310099.07 786.60104 0.85 WIL-21 789.248
2447154.859 310099.07 786.4928 -0.15 WIL-21 789.248
2447154.859 310099.07 786.36816 -0.27 WIL-21 789.248
2447154.859 310099.07 786.24024 -0.13 WIL-21 789.248
2447154.859 310099.07 786.10576 -0.36 WIL-21 789.248
2447154.859 310099.07 785.99096 0.23 WIL-21 789.248
2447154.859 310099.07 785.87616 2.11 WIL-21 789.248
2447154.859 310099.07 785.7712 0.88 WIL-21 789.248
2447154.859 310099.07 785.64 0.81 WIL-21 789.248
2447154.859 310099.07 785.51536 -0.64 WIL-21 789.248
2447154.859 310099.07 785.40712 0.78 WIL-21 789.248
2447154.859 310099.07 785.30216 0.86 WIL-21 789.248
2447154.859 310099.07 785.20048 -0.01 WIL-21 789.248
2447154.859 310099.07 785.09224 0.29 WIL-21 789.248
2447154.859 310099.07 784.984 0.71 WIL-21 789.248
2447154.859 310099.07 784.85608 0.75 WIL-21 789.248
2447154.859 310099.07 784.75112 0.72 WIL-21 789.248
2447154.859 310099.07 784.6232 0.62 WIL-21 789.248
2447154.859 310099.07 784.48544 0.9 WIL-21 789.248
2447154.859 310099.07 784.36736 0.82 WIL-21 789.248
2447154.859 310099.07 784.22632 0.71 WIL-21 789.248
2447154.859 310099.07 784.10168 0.91 WIL-21 789.248
2447154.859 310099.07 783.98032 0.72 WIL-21 789.248
2447154.859 310099.07 783.86224 0.5 WIL-21 789.248
2447154.859 310099.07 783.72448 0.94 WIL-21 789.248
2447154.859 310099.07 783.62608 0.68 WIL-21 789.248
2447154.859 310099.07 783.5244 0.72 WIL-21 789.248
2447154.859 310099.07 783.41944 0.87 WIL-21 789.248
2447154.859 310099.07 783.29152 0.88 WIL-21 789.248
2447154.859 310099.07 783.18656 0.81 WIL-21 789.248
2447154.859 310099.07 783.07832 0.86 WIL-21 789.248
2447154.859 310099.07 782.97664 0.78 WIL-21 789.248
2447154.859 310099.07 782.87168 1.02 WIL-21 789.248
2447154.859 310099.07 782.7536 0.95 WIL-21 789.248
2447154.859 310099.07 782.60928 0.91 WIL-21 789.248
2447154.859 310099.07 782.4256 0.88 WIL-21 789.248
2447154.859 310099.07 782.30096 0.86 WIL-21 789.248
2447154.859 310099.07 782.114 0.66 WIL-21 789.248
2447154.859 310099.07 781.95984 0.66 WIL-21 789.248
2447154.859 310099.07 781.81224 0.65 WIL-21 789.248
2447154.859 310099.07 781.66464 0.76 WIL-21 789.248
2447154.859 310099.07 781.52688 0.79 WIL-21 789.248
2447154.859 310099.07 781.42192 0.83 WIL-21 789.248
2447154.859 310099.07 781.28416 0.64 WIL-21 789.248
2447154.859 310099.07 781.18576 0.62 WIL-21 789.248
2447154.859 310099.07 781.08408 0.68 WIL-21 789.248
2447154.859 310099.07 780.966 0.71 WIL-21 789.248
2447154.859 310099.07 780.84136 0.73 WIL-21 789.248
2447154.859 310099.07 780.71344 0.8 WIL-21 789.248
2447154.859 310099.07 780.58552 0.53 WIL-21 789.248
2447154.859 310099.07 780.4576 0.73 WIL-21 789.248
2447154.859 310099.07 780.3428 0.9 WIL-21 789.248
2447154.859 310099.07 780.2116 0.63 WIL-21 789.248
2447154.859 310099.07 780.10664 0.73 WIL-21 789.248
2447154.859 310099.07 779.9984 0.69 WIL-21 789.248
2447154.859 310099.07 779.88688 0.77 WIL-21 789.248
2447154.859 310099.07 779.82456 0.68 WIL-21 789.248
2447205.878 310170.998 793.036 -0.86 WIL-22 793.036
2447205.878 310170.998 792.82608 -1.54 WIL-22 793.036
2447205.878 310170.998 792.708 -1.38 WIL-22 793.036
2447205.878 310170.998 792.55056 -1.28 WIL-22 793.036
2447205.878 310170.998 792.3964 -1.68 WIL-22 793.036
2447205.878 310170.998 792.16024 -1.42 WIL-22 793.036
2447205.878 310170.998 792.05528 -2 WIL-22 793.036
2447205.878 310170.998 791.92736 -1.4 WIL-22 793.036
2447205.878 310170.998 791.6748 -1.48 WIL-22 793.036
2447205.878 310170.998 791.54032 -1.32 WIL-22 793.036
2447205.878 310170.998 791.44192 -1.64 WIL-22 793.036
2447205.878 310170.998 791.34352 -1.27 WIL-22 793.036
2447205.878 310170.998 791.20576 -1.18 WIL-22 793.036
2447205.878 310170.998 791.07784 -1.33 WIL-22 793.036
2447205.878 310170.998 790.94992 -1.34 WIL-22 793.036
2447205.878 310170.998 790.84824 -1.33 WIL-22 793.036
2447205.878 310170.998 790.73016 -1.29 WIL-22 793.036
2447205.878 310170.998 790.60224 -1.23 WIL-22 793.036
2447205.878 310170.998 790.48088 -1.5 WIL-22 793.036
2447205.878 310170.998 790.34312 -1.45 WIL-22 793.036
2447205.878 310170.998 790.2316 -1.11 WIL-22 793.036
2447205.878 310170.998 790.10696 -1.4 WIL-22 793.036
2447205.878 310170.998 789.94296 -1 WIL-22 793.036
2447205.878 310170.998 789.80848 -1.37 WIL-22 793.036
2447205.878 310170.998 789.674 -1.43 WIL-22 793.036
2447205.878 310170.998 789.53952 -1.49 WIL-22 793.036
2447205.878 310170.998 789.43784 -1.61 WIL-22 793.036
2447205.878 310170.998 789.40176 -1.5 WIL-22 793.036
```

```
2447169.563 310241.085 792.40916 3.11 WIL-23 792.419
2447169.563 310241.085 792.27468 1.27 WIL-23 792.419
2447169.563 310241.085 792.02868 0.95 WIL-23 792.419
2447169.563 310241.085 791.76956 1.22 WIL-23 792.419
2447169.563 310241.085 791.65476 1.02 WIL-23 792.419
2447169.563 310241.085 791.3202 1 WIL-23 792.419
2447169.563 310241.085 791.1234 1.06 WIL-23 792.419
2447169.563 310241.085 790.88396 0.9 WIL-23 792.419
2447169.563 310241.085 790.55596 0.75 WIL-23 792.419
2447169.563 310241.085 790.11644 0.81 WIL-23 792.419
2447169.563 310241.085 789.82124 0.8 WIL-23 792.419
2447169.563 310241.085 789.4834 1.02 WIL-23 792.419
2447169.563 310241.085 789.385 1 WIL-23 792.419
2447169.563 310241.085 789.27348 0.89 WIL-23 792.419
2447169.563 310241.085 789.12916 0.75 WIL-23 792.419
2447169.563 310241.085 789.02748 0.81 WIL-23 792.419
2447169.563 310241.085 788.87988 0.93 WIL-23 792.419
2447169.563 310241.085 788.75196 0.87 WIL-23 792.419
2447169.563 310241.085 788.62404 0.72 WIL-23 792.419
2447169.563 310241.085 788.4666 0.79 WIL-23 792.419
2447169.563 310241.085 788.33212 0.92 WIL-23 792.419
2447169.563 310241.085 788.20748 0.85 WIL-23 792.419
2447169.563 310241.085 788.07956 0.86 WIL-23 792.419
2447169.563 310241.085 787.93524 0.95 WIL-23 792.419
2447169.563 310241.085 787.8106 0.83 WIL-23 792.419
2447169.563 310241.085 787.68924 0.74 WIL-23 792.419
2447169.563 310241.085 787.56788 1.07 WIL-23 792.419
2447169.563 310241.085 787.4334 0.72 WIL-23 792.419
2447169.563 310241.085 787.33172 0.76 WIL-23 792.419
2447169.563 310241.085 787.21364 0.89 WIL-23 792.419
2447169.563 310241.085 787.089 0.82 WIL-23 792.419
2447169.563 310241.085 786.93156 0.76 WIL-23 792.419
2447169.563 310241.085 786.80036 0.89 WIL-23 792.419
2447169.563 310241.085 786.6626 0.98 WIL-23 792.419
2447169.563 310241.085 786.52484 0.97 WIL-23 792.419
2447169.563 310241.085 786.41988 0.72 WIL-23 792.419
2447169.563 310241.085 786.30508 0.64 WIL-23 792.419
2447169.563 310241.085 786.19684 0.77 WIL-23 792.419
2447169.563 310241.085 786.05908 0.8 WIL-23 792.419
2447169.563 310241.085 785.9082 0.88 WIL-23 792.419
2447169.563 310241.085 785.777 0.86 WIL-23 792.419
2447169.563 310241.085 785.66548 0.84 WIL-23 792.419
2447169.563 310241.085 785.53428 1.06 WIL-23 792.419
2447169.563 310241.085 785.42276 0.9 WIL-23 792.419
2447169.563 310241.085 785.27516 0.83 WIL-23 792.419
2447169.563 310241.085 785.14068 0.75 WIL-23 792.419
2447169.563 310241.085 785.0226 0.64 WIL-23 792.419
2447169.563 310241.085 784.88812 0.67 WIL-23 792.419
2447169.563 310241.085 784.76676 0.55 WIL-23 792.419
2447169.563 310241.085 784.5962 0.66 WIL-23 792.419
2447169.563 310241.085 784.45844 0.88 WIL-23 792.419
2447169.563 310241.085 784.34692 0.68 WIL-23 792.419
2447169.563 310241.085 784.19276 0.71 WIL-23 792.419
2447169.563 310241.085 784.08124 0.98 WIL-23 792.419
2447169.563 310241.085 783.92052 0.77 WIL-23 792.419
2447169.563 310241.085 783.81228 0.89 WIL-23 792.419
2447169.563 310241.085 783.7106 0.63 WIL-23 792.419
2447169.563 310241.085 783.563 0.66 WIL-23 792.419
2447169.563 310241.085 783.42196 0.65 WIL-23 792.419
2447169.563 310241.085 783.28092 0.68 WIL-23 792.419
2447169.563 310241.085 783.13988 0.68 WIL-23 792.419
2447169.563 310241.085 782.99556 0.73 WIL-23 792.419
2447169.563 310241.085 782.84796 0.74 WIL-23 792.419
2447169.563 310241.085 782.70692 0.74 WIL-23 792.419
2447169.563 310241.085 782.53636 0.8 WIL-23 792.419
2447169.563 310241.085 782.3494 0.67 WIL-23 792.419
2447169.563 310241.085 782.18868 0.61 WIL-23 792.419
2447169.563 310241.085 782.02796 0.7 WIL-23 792.419
2447169.563 310241.085 781.92956 0.71 WIL-23 792.419
2447169.563 310241.085 781.76884 0.74 WIL-23 792.419
2447169.563 310241.085 781.66388 0.61 WIL-23 792.419
2447169.563 310241.085 781.49988 0.66 WIL-23 792.419
2447169.563 310241.085 781.3818 0.67 WIL-23 792.419
2447169.563 310241.085 781.185 0.65 WIL-23 792.419
2447169.563 310241.085 781.0538 0.54 WIL-23 792.419
2447169.563 310241.085 780.94884 0.8 WIL-23 792.419
2447169.563 310241.085 780.83732 0.62 WIL-23 792.419
2447169.563 310241.085 780.7258 0.77 WIL-23 792.419
2447169.563 310241.085 780.62412 0.59 WIL-23 792.419
2447169.563 310241.085 780.49948 0.75 WIL-23 792.419
2447169.563 310241.085 780.39124 0.8 WIL-23 792.419
2447169.563 310241.085 780.28628 0.69 WIL-23 792.419
2447169.563 310241.085 780.18132 0.52 WIL-23 792.419
2447169.563 310241.085 780.06652 0.65 WIL-23 792.419
2447169.563 310241.085 779.96812 0.62 WIL-23 792.419
2447169.563 310241.085 779.85988 0.71 WIL-23 792.419
2447169.563 310241.085 779.73852 0.61 WIL-23 792.419
2447169.563 310241.085 779.61388 0.64 WIL-23 792.419
2447169.563 310241.085 779.48596 0.68 WIL-23 792.419
2447169.563 310241.085 779.35804 0.57 WIL-23 792.419
2447169.563 310241.085 779.2334 0.66 WIL-23 792.419
2447169.563 310241.085 779.11204 0.51 WIL-23 792.419
2447169.563 310241.085 778.98412 0.54 WIL-23 792.419
2447169.563 310241.085 778.83324 0.62 WIL-23 792.419
2447169.563 310241.085 778.7578 0.6 WIL-23 792.419
2447109.983 310289.823 790.725 4.5 WIL-24 790.725
2447109.983 310289.823 790.39372 0.74 WIL-24 790.725
2447109.983 310289.823 790.2658 0.68 WIL-24 790.725
2447109.983 310289.823 790.15428 0.72 WIL-24 790.725
2447109.983 310289.823 789.88204 0.56 WIL-24 790.725
2447109.983 310289.823 789.495 0.54 WIL-24 790.725
2447109.983 310289.823 789.18668 0.74 WIL-24 790.725
```

```
2447109.983 310289.823 788.9866 0.55 WIL-24 790.725
2447109.983 310289.823 788.5602 1.52 WIL-24 790.725
2447109.983 310289.823 788.36012 2.95 WIL-24 790.725
2447109.983 310289.823 788.26172 2.71 WIL-24 790.725
2447109.983 310289.823 788.13708 2.49 WIL-24 790.725
2447109.983 310289.823 787.95996 0.74 WIL-24 790.725
2447109.983 310289.823 787.85828 0.9 WIL-24 790.725
2447109.983 310289.823 787.72708 0.78 WIL-24 790.725
2447109.983 310289.823 787.61228 0.42 WIL-24 790.725
2447109.983 310289.823 787.47124 0.49 WIL-24 790.725
2447109.983 310289.823 787.3138 0.42 WIL-24 790.725
2447109.983 310289.823 787.2154 0.55 WIL-24 790.725
2447109.983 310289.823 787.08092 1.15 WIL-24 790.725
2447109.983 310289.823 786.95628 0.77 WIL-24 790.725
2447109.983 310289.823 786.83492 0.79 WIL-24 790.725
2447109.983 310289.823 786.68076 0.57 WIL-24 790.725
2447109.983 310289.823 786.5758 0.8 WIL-24 790.725
2447109.983 310289.823 786.45772 0.83 WIL-24 790.725
2447109.983 310289.823 786.30684 0.61 WIL-24 790.725
2447109.983 310289.823 786.16252 0.82 WIL-24 790.725
2447109.983 310289.823 785.97556 0.73 WIL-24 790.725
2447109.983 310289.823 785.83124 0.56 WIL-24 790.725
2447109.983 310289.823 785.68036 0.68 WIL-24 790.725
2447109.983 310289.823 785.53276 0.72 WIL-24 790.725
2447109.983 310289.823 785.38188 0.6 WIL-24 790.725
2447109.983 310289.823 785.20148 0.53 WIL-24 790.725
2447109.983 310289.823 785.03092 0.61 WIL-24 790.725
2447109.983 310289.823 784.92596 0.55 WIL-24 790.725
2447109.983 310289.823 784.8046 0.79 WIL-24 790.725
2447109.983 310289.823 784.64716 0.69 WIL-24 790.725
2447109.983 310289.823 784.51596 0.64 WIL-24 790.725
2447109.983 310289.823 784.38476 0.71 WIL-24 790.725
2447109.983 310289.823 784.25684 0.68 WIL-24 790.725
2447109.983 310289.823 784.12236 0.58 WIL-24 790.725
2447109.983 310289.823 783.9682 0.42 WIL-24 790.725
2447109.983 310289.823 783.85996 0.48 WIL-24 790.725
2447109.983 310289.823 783.71564 0.39 WIL-24 790.725
2447109.983 310289.823 783.59428 0.48 WIL-24 790.725
2447109.983 310289.823 783.4598 0.48 WIL-24 790.725
2447109.983 310289.823 783.32532 0.5 WIL-24 790.725
2447109.983 310289.823 783.21052 0.47 WIL-24 790.725
2447109.983 310289.823 783.07932 0.56 WIL-24 790.725
2447109.983 310289.823 782.94812 0.63 WIL-24 790.725
2447109.983 310289.823 782.79396 0.53 WIL-24 790.725
2447109.983 310289.823 782.6562 0.73 WIL-24 790.725
2447109.983 310289.823 782.52828 0.44 WIL-24 790.725
2447109.983 310289.823 782.4266 0.56 WIL-24 790.725
2447109.983 310289.823 782.23308 0.56 WIL-24 790.725
2447109.983 310289.823 782.09532 0.51 WIL-24 790.725
2447109.983 310289.823 781.97068 0.72 WIL-24 790.725
2447109.983 310289.823 781.86572 0.79 WIL-24 790.725
2447109.983 310289.823 781.76076 0.8 WIL-24 790.725
2447109.983 310289.823 781.57708 0.7 WIL-24 790.725
2447109.983 310289.823 781.3934 0.72 WIL-24 790.725
2447109.983 310289.823 781.2786 0.68 WIL-24 790.725
2447109.983 310289.823 781.09164 0.74 WIL-24 790.725
2447109.983 310289.823 780.94732 0.81 WIL-24 790.725
2447109.983 310289.823 780.78004 0.82 WIL-24 790.725
2447109.983 310289.823 780.6718 0.71 WIL-24 790.725
2447109.983 310289.823 780.56356 0.83 WIL-24 790.725
2447109.983 310289.823 780.46516 0.76 WIL-24 790.725
2447109.983 310289.823 780.36676 0.86 WIL-24 790.725
2447109.983 310289.823 780.21588 0.67 WIL-24 790.725
2447109.983 310289.823 780.11748 0.76 WIL-24 790.725
2447109.983 310289.823 780.00268 0.77 WIL-24 790.725
2447109.983 310289.823 779.90428 0.91 WIL-24 790.725
2447109.983 310289.823 779.7698 0.9 WIL-24 790.725
2447109.983 310289.823 779.655 0.71 WIL-24 790.725
2447109.983 310289.823 779.51068 0.72 WIL-24 790.725
2447109.983 310289.823 779.39588 0.78 WIL-24 790.725
2447109.983 310289.823 779.28108 0.79 WIL-24 790.725
2447109.983 310289.823 779.16956 0.82 WIL-24 790.725
2447109.983 310289.823 779.02852 0.86 WIL-24 790.725
2447109.983 310289.823 778.90716 0.79 WIL-24 790.725
2447109.983 310289.823 778.8022 0.92 WIL-24 790.725
2447109.983 310289.823 778.65788 0.88 WIL-24 790.725
2447109.983 310289.823 778.4906 0.66 WIL-24 790.725
2447109.983 310289.823 778.3922 0.75 WIL-24 790.725
2447109.983 310289.823 778.23804 0.69 WIL-24 790.725
2447109.983 310289.823 778.0806 0.86 WIL-24 790.725
2447109.983 310289.823 777.9822 0.7 WIL-24 790.725
2447109.983 310289.823 777.84444 0.89 WIL-24 790.725
2447109.983 310289.823 777.69028 0.8 WIL-24 790.725
2447109.983 310289.823 777.59188 0.82 WIL-24 790.725
2447109.983 310289.823 777.4902 0.89 WIL-24 790.725
2447109.983 310289.823 777.3918 0.83 WIL-24 790.725
2447109.983 310289.823 777.2934 0.74 WIL-24 790.725
2447109.983 310289.823 777.10972 0.58 WIL-24 790.725
2447109.983 310289.823 776.97196 0.8 WIL-24 790.725
2447109.983 310289.823 776.867 0.74 WIL-24 790.725
2447109.983 310289.823 776.75548 0.72 WIL-24 790.725
2447109.983 310289.823 776.63412 0.9 WIL-24 790.725
2447109.983 310289.823 776.53572 0.77 WIL-24 790.725
2447109.983 310289.823 776.40124 0.97 WIL-24 790.725
2447109.983 310289.823 776.29956 0.86 WIL-24 790.725
2447109.983 310289.823 776.19788 0.82 WIL-24 790.725
2447109.983 310289.823 776.08636 0.76 WIL-24 790.725
2447109.983 310289.823 776.02404 0.78 WIL-24 790.725
2447025.36 310363.235 793.68 0.24 WIL-25 793.68
2447025.36 310363.235 793.53896 -0.55 WIL-25 793.68
2447025.36 310363.235 793.33888 -0.54 WIL-25 793.68
2447025.36 310363.235 793.1388 -0.46 WIL-25 793.68
```

```
2447025.36 310363.235 793.03056 -0.73 WIL-25 793.68
2447025.36 310363.235 792.82392 -0.69 WIL-25 793.68
2447025.36 310363.235 792.696 -0.66 WIL-25 793.68
2447025.36 310363.235 792.5484 -0.5 WIL-25 793.68
2447025.36 310363.235 792.3844 -0.77 WIL-25 793.68
2447025.36 310363.235 792.14496 -0.71 WIL-25 793.68
2447025.36 310363.235 791.91208 -0.35 WIL-25 793.68
2447025.36 310363.235 791.75464 -0.77 WIL-25 793.68
2447025.36 310363.235 791.61688 0.11 WIL-25 793.68
2447025.36 310363.235 791.466 -0.16 WIL-25 793.68
2447025.36 310363.235 791.29544 -0.45 WIL-25 793.68
2447025.36 310363.235 791.19704 -0.03 WIL-25 793.68
2447025.36 310363.235 791.06912 -0.41 WIL-25 793.68
2447025.36 310363.235 790.93792 -0.23 WIL-25 793.68
2447025.36 310363.235 790.81984 -0.45 WIL-25 793.68
2447025.36 310363.235 790.6788 -0.57 WIL-25 793.68
2447025.36 310363.235 790.57384 -0.27 WIL-25 793.68
2447025.36 310363.235 790.47216 -0.44 WIL-25 793.68
2447025.36 310363.235 790.37048 -0.67 WIL-25 793.68
2447025.36 310363.235 790.27208 -0.65 WIL-25 793.68
2447025.36 310363.235 790.1376 -0.25 WIL-25 793.68
2447025.36 310363.235 789.97688 -0.69 WIL-25 793.68
2447025.36 310363.235 789.85552 -0.21 WIL-25 793.68
2447025.36 310363.235 789.74728 -0.45 WIL-25 793.68
2447025.36 310363.235 789.62592 -0.52 WIL-25 793.68
2447025.36 310363.235 789.51768 -0.25 WIL-25 793.68
2447025.36 310363.235 789.41272 0 WIL-25 793.68
2447025.36 310363.235 789.30448 -0.94 WIL-25 793.68
2447025.36 310363.235 789.17984 -0.48 WIL-25 793.68
2447025.36 310363.235 789.07816 -0.55 WIL-25 793.68
2447025.36 310363.235 788.96992 -0.67 WIL-25 793.68
2447025.36 310363.235 788.84528 -0.57 WIL-25 793.68
2447025.36 310363.235 788.74032 -0.4 WIL-25 793.68
2447025.36 310363.235 788.63208 -0.42 WIL-25 793.68
2447025.36 310363.235 788.51072 -0.62 WIL-25 793.68
2447025.36 310363.235 788.3992 -0.45 WIL-25 793.68
2447025.36 310363.235 788.2844 -0.64 WIL-25 793.68
2447025.36 310363.235 788.17616 -0.37 WIL-25 793.68
2447025.36 310363.235 788.0712 -0.55 WIL-25 793.68
2447025.36 310363.235 787.96624 -0.43 WIL-25 793.68
2447025.36 310363.235 787.83832 -0.49 WIL-25 793.68
2447025.36 310363.235 787.73008 -0.46 WIL-25 793.68
2447025.36 310363.235 787.58904 -0.5 WIL-25 793.68
2447025.36 310363.235 787.4316 -0.39 WIL-25 793.68
2447025.36 310363.235 787.27744 -0.36 WIL-25 793.68
2447025.36 310363.235 787.12656 -0.47 WIL-25 793.68
2447025.36 310363.235 786.99864 -0.45 WIL-25 793.68
2447025.36 310363.235 786.84448 -0.27 WIL-25 793.68
2447025.36 310363.235 786.71328 -0.46 WIL-25 793.68
2447025.36 310363.235 786.58208 -0.15 WIL-25 793.68
2447025.36 310363.235 786.45088 0.24 WIL-25 793.68
2447025.36 310363.235 786.33608 0.18 WIL-25 793.68
2447025.36 310363.235 786.22128 0.35 WIL-25 793.68
2447025.36 310363.235 786.04744 1.71 WIL-25 793.68
2447025.36 310363.235 785.88672 2.76 WIL-25 793.68
2447025.36 310363.235 785.78504 3.9 WIL-25 793.68
2447025.36 310363.235 785.61776 16.03 WIL-25 793.68
2447025.36 310363.235 785.47344 31.74 WIL-25 793.68
2447025.36 310363.235 785.37176 17.89 WIL-25 793.68
2447025.36 310363.235 785.24384 13.39 WIL-25 793.68
2447025.36 310363.235 785.13888 14.13 WIL-25 793.68
2447025.36 310363.235 785.03064 26.15 WIL-25 793.68
2447025.36 310363.235 784.906 23.9 WIL-25 793.68
2447025.36 310363.235 784.7912 34.29 WIL-25 793.68
2447025.36 310363.235 784.67968 27.93 WIL-25 793.68
2447025.36 310363.235 784.56816 23.65 WIL-25 793.68
2447025.36 310363.235 784.45664 21.68 WIL-25 793.68
2447025.36 310363.235 784.3484 25.89 WIL-25 793.68
2447025.36 310363.235 784.24016 48.86 WIL-25 793.68
2447025.36 310363.235 784.19424 58.75 WIL-25 793.68
2447025.36 310363.235 784.08272 31.54 WIL-25 793.68
2447025.36 310363.235 783.98432 12.21 WIL-25 793.68
2447025.36 310363.235 783.86296 1.42 WIL-25 793.68
2447025.36 310363.235 783.76784 0.01 WIL-25 793.68
2447025.36 310363.235 783.66288 8.57 WIL-25 793.68
2447025.36 310363.235 783.56448 27.34 WIL-25 793.68
2447025.36 310363.235 783.4628 10.29 WIL-25 793.68
2447025.36 310363.235 783.3644 3.42 WIL-25 793.68
2447025.36 310363.235 783.3316 3.22 WIL-25 793.68
2447194.188 310331.792 794.861 -0.17 WIL-26 794.861
2447194.188 310331.792 794.59532 -1.02 WIL-26 794.861
2447194.188 310331.792 794.42804 -1.04 WIL-26 794.861
2447194.188 310331.792 794.29684 -0.96 WIL-26 794.861
2447194.188 310331.792 794.123 -1 WIL-26 794.861
2447194.188 310331.792 794.01148 -1.09 WIL-26 794.861
2447194.188 310331.792 793.85076 -0.92 WIL-26 794.861
2447194.188 310331.792 793.73924 -0.88 WIL-26 794.861
2447194.188 310331.792 793.61132 -0.72 WIL-26 794.861
2447194.188 310331.792 793.49652 -0.73 WIL-26 794.861
2447194.188 310331.792 793.37188 -0.81 WIL-26 794.861
2447194.188 310331.792 793.26036 -0.81 WIL-26 794.861
2447194.188 310331.792 793.13244 -0.99 WIL-26 794.861
2447194.188 310331.792 793.00452 -0.96 WIL-26 794.861
2447194.188 310331.792 792.88972 -0.99 WIL-26 794.861
2447194.188 310331.792 792.78804 -0.9 WIL-26 794.861
2447194.188 310331.792 792.66996 -0.89 WIL-26 794.861
2447194.188 310331.792 792.55516 -0.95 WIL-26 794.861
2447194.188 310331.792 792.44364 -0.9 WIL-26 794.861
2447194.188 310331.792 792.30916 -1.1 WIL-26 794.861
2447194.188 310331.792 792.1878 -0.97 WIL-26 794.861
2447194.188 310331.792 792.05004 -0.92 WIL-26 794.861
2447194.188 310331.792 791.9418 -0.91 WIL-26 794.861
```

```
2447194.188 310331.792 791.827 -1.08 WIL-26 794.861
2447194.188 310331.792 791.69908 -1 WIL-26 794.861
2447194.188 310331.792 791.5974 -0.82 WIL-26 794.861
2447194.188 310331.792 791.49572 -0.95 WIL-26 794.861
2447194.188 310331.792 791.4006 -0.97 WIL-26 794.861
2447273.739 310352.885 795.3 1.08 WIL-27 795.3
2447273.739 310352.885 795.27048 0.31 WIL-27 795.3
2447273.739 310352.885 795.17536 0.26 WIL-27 795.3
2447273.739 310352.885 795.04416 0.34 WIL-27 795.3
2447273.739 310352.885 794.89984 0.04 WIL-27 795.3
2447273.739 310352.885 794.77848 0.37 WIL-27 795.3
2447273.739 310352.885 794.63744 0.06 WIL-27 795.3
2447273.739 310352.885 794.46688 0.32 WIL-27 795.3
2447273.739 310352.885 794.34224 0.26 WIL-27 795.3
2447273.739 310352.885 794.18808 0.41 WIL-27 795.3
2447273.739 310352.885 793.96176 0.38 WIL-27 795.3
2447273.739 310352.885 793.84696 0.29 WIL-27 795.3
2447273.739 310352.885 793.69936 0.3 WIL-27 795.3
2447273.739 310352.885 793.59112 0.45 WIL-27 795.3
2447273.739 310352.885 793.48288 0.65 WIL-27 795.3
2447273.739 310352.885 793.37136 0.56 WIL-27 795.3
2447273.739 310352.885 793.24016 0.5 WIL-27 795.3
2447273.739 310352.885 793.12208 0.29 WIL-27 795.3
2447273.739 310352.885 793.00728 0.36 WIL-27 795.3
2447273.739 310352.885 792.89576 0.28 WIL-27 795.3
2447273.739 310352.885 792.7908 0.37 WIL-27 795.3
2447273.739 310352.885 792.6432 0.11 WIL-27 795.3
2447273.739 310352.885 792.53496 0.32 WIL-27 795.3
2447273.739 310352.885 792.37752 0.29 WIL-27 795.3
2447273.739 310352.885 792.27584 0.24 WIL-27 795.3
2447273.739 310352.885 792.1676 0.17 WIL-27 795.3
2447273.739 310352.885 792.05936 0.21 WIL-27 795.3
2447273.739 310352.885 791.93144 0.29 WIL-27 795.3
2447273.739 310352.885 791.75104 0.25 WIL-27 795.3
2447273.739 310352.885 791.58704 0.28 WIL-27 795.3
2447273.739 310352.885 791.48536 0.2 WIL-27 795.3
2447273.739 310352.885 791.40008 0.03 WIL-27 795.3
2447273.739 310352.885 791.25248 0.02 WIL-27 795.3
2447273.739 310352.885 791.11472 0.19 WIL-27 795.3
2447273.739 310352.885 790.9868 -0.02 WIL-27 795.3
2447273.739 310352.885 790.86216 0.13 WIL-27 795.3
2447273.739 310352.885 790.70144 0.27 WIL-27 795.3
2447273.739 310352.885 790.57024 0.36 WIL-27 795.3
2447273.739 310352.885 790.43904 0.21 WIL-27 795.3
2447273.739 310352.885 790.30784 0.19 WIL-27 795.3
2447273.739 310352.885 790.19632 0.11 WIL-27 795.3
2447273.739 310352.885 790.09792 -0.01 WIL-27 795.3
2447273.739 310352.885 789.93392 0.23 WIL-27 795.3
2447273.739 310352.885 789.7732 0.14 WIL-27 795.3
2447273.739 310352.885 789.67152 -0.01 WIL-27 795.3
2447273.739 310352.885 789.51736 0.09 WIL-27 795.3
2447273.739 310352.885 789.35992 0.11 WIL-27 795.3
2447273.739 310352.885 789.17296 0.15 WIL-27 795.3
2447273.739 310352.885 789.04832 0.01 WIL-27 795.3
2447273.739 310352.885 788.85808 0.05 WIL-27 795.3
2447273.739 310352.885 788.7072 0.14 WIL-27 795.3
2447273.739 310352.885 788.5432 0 WIL-27 795.3
2447273.739 310352.885 788.49728 0.02 WIL-27 795.3
2447273.739 310352.885 788.3464 0.12 WIL-27 795.3
2447273.739 310352.885 788.22832 0.1 WIL-27 795.3
2447273.739 310352.885 788.10696 0.15 WIL-27 795.3
2447273.739 310352.885 787.92 0.02 WIL-27 795.3
2447273.739 310352.885 787.76256 0.13 WIL-27 795.3
2447273.739 310352.885 787.61496 0.18 WIL-27 795.3
2447273.739 310352.885 787.45752 0.03 WIL-27 795.3
2447273.739 310352.885 787.35912 0.2 WIL-27 795.3
2447273.739 310352.885 787.19184 0.17 WIL-27 795.3
2447273.739 310352.885 787.00488 0.15 WIL-27 795.3
2447273.739 310352.885 786.89008 0.1 WIL-27 795.3
2447273.739 310352.885 786.75888 -0.02 WIL-27 795.3
2447273.739 310352.885 786.62112 -0.07 WIL-27 795.3
2447273.739 310352.885 786.4768 -0.05 WIL-27 795.3
2447273.739 310352.885 786.31936 0.03 WIL-27 795.3
2447273.739 310352.885 786.15536 -0.07 WIL-27 795.3
2447273.739 310352.885 786.05696 -0.06 WIL-27 795.3
2447273.739 310352.885 785.95856 -0.01 WIL-27 795.3
2447273.739 310352.885 785.79128 -0.04 WIL-27 795.3
2447273.739 310352.885 785.62728 0.08 WIL-27 795.3
2447273.739 310352.885 785.52888 -0.06 WIL-27 795.3
2447273.739 310352.885 785.46328 0 WIL-27 795.3
2447273.739 310352.885 785.38456 0.06 WIL-27 795.3
2447273.739 310352.885 785.3288 0.05 WIL-27 795.3
2447273.739 310352.885 785.2468 0.04 WIL-27 795.3
2447273.739 310352.885 785.12216 0 WIL-27 795.3
2447273.739 310352.885 785.00736 0.01 WIL-27 795.3
2447273.739 310352.885 784.87616 -0.15 WIL-27 795.3
2447273.739 310352.885 784.76136 0.05 WIL-27 795.3
2447273.739 310352.885 784.64984 -0.01 WIL-27 795.3
2447273.739 310352.885 784.45304 0.07 WIL-27 795.3
2447273.739 310352.885 784.25624 -0.06 WIL-27 795.3
2447273.739 310352.885 784.07912 0.01 WIL-27 795.3
2447273.739 310352.885 783.92168 -0.04 WIL-27 795.3
2447273.739 310352.885 783.76752 -0.17 WIL-27 795.3
2447273.739 310352.885 783.5904 0.01 WIL-27 795.3
2447273.739 310352.885 783.47888 -0.03 WIL-27 795.3
2447273.739 310352.885 783.47232 0.14 WIL-27 795.3
2447282.462 310264.308 794.813 4.66 WIL-31 794.813
2447282.462 310264.308 794.68508 -1.42 WIL-31 794.813
2447282.462 310264.308 794.48172 -0.43 WIL-31 794.813
2447282.462 310264.308 794.31772 -0.8 WIL-31 794.813
2447282.462 310264.308 794.21932 -1.22 WIL-31 794.813
2447282.462 310264.308 793.86836 -0.81 WIL-31 794.813
```

```
2447282.462 310264.308 793.7634 -0.59 WIL-31 794.813
2447282.462 310264.308 793.54364 -1.71 WIL-31 794.813
2447282.462 310264.308 793.28452 -1.05 WIL-31 794.813
2447282.462 310264.308 793.08116 -1.1 WIL-31 794.813
2447282.462 310264.308 792.90404 -0.99 WIL-31 794.813
2447282.462 310264.308 792.74004 -0.92 WIL-31 794.813
2447282.462 310264.308 792.5826 -0.1 WIL-31 794.813
2447282.462 310264.308 792.45468 -1.11 WIL-31 794.813
2447282.462 310264.308 792.31692 -0.87 WIL-31 794.813
2447282.462 310264.308 792.18572 -0.55 WIL-31 794.813
2447282.462 310264.308 792.06764 -0.9 WIL-31 794.813
2447282.462 310264.308 791.92332 -0.45 WIL-31 794.813
2447282.462 310264.308 791.80852 -0.5 WIL-31 794.813
2447282.462 310264.308 791.70684 -0.63 WIL-31 794.813
2447282.462 310264.308 791.60516 -0.97 WIL-31 794.813
2447282.462 310264.308 791.4838 -0.36 WIL-31 794.813
2447282.462 310264.308 791.37556 -0.51 WIL-31 794.813
2447282.462 310264.308 791.26404 -0.37 WIL-31 794.813
2447282.462 310264.308 791.13284 -0.36 WIL-31 794.813
2447282.462 310264.308 791.02132 -0.54 WIL-31 794.813
2447282.462 310264.308 790.91308 -0.88 WIL-31 794.813
2447282.462 310264.308 790.80484 -0.44 WIL-31 794.813
2447282.462 310264.308 790.69332 -0.79 WIL-31 794.813
2447282.462 310264.308 790.56212 -0.17 WIL-31 794.813
2447282.462 310264.308 790.45388 -0.21 WIL-31 794.813
2447282.462 310264.308 790.29644 -0.49 WIL-31 794.813
2447282.462 310264.308 790.1718 -0.28 WIL-31 794.813
2447282.462 310264.308 790.06684 -0.25 WIL-31 794.813
2447282.462 310264.308 789.96516 0.19 WIL-31 794.813
2447282.462 310264.308 789.86676 -0.31 WIL-31 794.813
2447282.462 310264.308 789.75852 -0.82 WIL-31 794.813
2447282.462 310264.308 789.63388 -0.23 WIL-31 794.813
2447282.462 310264.308 789.5158 -0.83 WIL-31 794.813
2447282.462 310264.308 789.39772 -0.2 WIL-31 794.813
2447282.462 310264.308 789.27964 -0.61 WIL-31 794.813
2447282.462 310264.308 789.1386 -0.29 WIL-31 794.813
2447282.462 310264.308 789.00084 -0.04 WIL-31 794.813
2447282.462 310264.308 788.88932 -0.69 WIL-31 794.813
2447282.462 310264.308 788.78108 -0.61 WIL-31 794.813
2447282.462 310264.308 788.6466 -0.84 WIL-31 794.813
2447282.462 310264.308 788.5154 -0.55 WIL-31 794.813
2447282.462 310264.308 788.33172 -0.55 WIL-31 794.813
2447282.462 310264.308 788.171 -1.05 WIL-31 794.813
2447282.462 310264.308 788.01356 -0.33 WIL-31 794.813
2447282.462 310264.308 787.91516 -0.89 WIL-31 794.813
2447282.462 310264.308 787.72164 -0.34 WIL-31 794.813
2447282.462 310264.308 787.52812 -0.13 WIL-31 794.813
2447282.462 310264.308 787.41004 -0.7 WIL-31 794.813
2447282.462 310264.308 787.24276 -0.49 WIL-31 794.813
2447282.462 310264.308 787.10172 -0.4 WIL-31 794.813
2447282.462 310264.308 786.96396 -0.86 WIL-31 794.813
2447282.462 310264.308 786.86556 -0.67 WIL-31 794.813
2447282.462 310264.308 786.7606 -0.81 WIL-31 794.813
2447282.462 310264.308 786.59004 -0.97 WIL-31 794.813
2447282.462 310264.308 786.4162 -0.67 WIL-31 794.813
2447282.462 310264.308 786.31124 -0.83 WIL-31 794.813
2447282.462 310264.308 786.21284 -0.81 WIL-31 794.813
2447282.462 310264.308 786.0718 -0.65 WIL-31 794.813
2447282.462 310264.308 785.9242 -0.51 WIL-31 794.813
2447282.462 310264.308 785.8258 -0.77 WIL-31 794.813
2447282.462 310264.308 785.65524 -1.02 WIL-31 794.813
2447282.462 310264.308 785.49452 -0.66 WIL-31 794.813
2447282.462 310264.308 785.33708 -1.18 WIL-31 794.813
2447282.462 310264.308 785.23868 -0.75 WIL-31 794.813
2447282.462 310264.308 785.07796 -0.61 WIL-31 794.813
2447282.462 310264.308 784.97956 -0.52 WIL-31 794.813
2447282.462 310264.308 784.87788 -1.36 WIL-31 794.813
2447282.462 310264.308 784.70732 -0.64 WIL-31 794.813
2447282.462 310264.308 784.55972 -0.84 WIL-31 794.813
2447282.462 310264.308 784.40228 -0.83 WIL-31 794.813
2447282.462 310264.308 784.24812 -0.53 WIL-31 794.813
2447282.462 310264.308 784.14972 -0.79 WIL-31 794.813
2447282.462 310264.308 784.00212 -0.6 WIL-31 794.813
2447282.462 310264.308 783.8906 -1.04 WIL-31 794.813
2447282.462 310264.308 783.76268 -0.58 WIL-31 794.813
2447282.462 310264.308 783.60852 -0.87 WIL-31 794.813
2447282.462 310264.308 783.47076 -0.75 WIL-31 794.813
2447282.462 310264.308 783.35268 -0.92 WIL-31 794.813
2447282.462 310264.308 783.18212 -0.53 WIL-31 794.813
2447282.462 310264.308 783.05748 -0.46 WIL-31 794.813
2447282.462 310264.308 782.94924 -0.75 WIL-31 794.813
2447303.637 310545.738 799.595 4.01 WIL-44 799.595
2447303.637 310545.738 799.41132 -0.21 WIL-44 799.595
2447303.637 310545.738 799.29324 -0.23 WIL-44 799.595
2447303.637 310545.738 799.18172 -0.26 WIL-44 799.595
2447303.637 310545.738 799.01772 -0.16 WIL-44 799.595
2447303.637 310545.738 798.78812 0.05 WIL-44 799.595
2447303.637 310545.738 798.63068 -0.18 WIL-44 799.595
2447303.637 310545.738 798.45356 -0.13 WIL-44 799.595
2447303.637 310545.738 798.28956 0.01 WIL-44 799.595
2447303.637 310545.738 798.17476 -0.13 WIL-44 799.595
2447303.637 310545.738 798.037 -0.19 WIL-44 799.595
2447303.637 310545.738 797.90908 0.07 WIL-44 799.595
2447303.637 310545.738 797.7746 0.1 WIL-44 799.595
2447303.637 310545.738 797.58436 0.29 WIL-44 799.595
2447303.637 310545.738 797.4138 0.22 WIL-44 799.595
2447303.637 310545.738 797.28588 0.02 WIL-44 799.595
2447303.637 310545.738 797.1842 -0.26 WIL-44 799.595
2447303.637 310545.738 797.06284 -0.18 WIL-44 799.595
2447303.637 310545.738 796.96116 -0.33 WIL-44 799.595
2447303.637 310545.738 796.84636 -0.27 WIL-44 799.595
2447303.637 310545.738 796.73484 -0.05 WIL-44 799.595
```

```
2447303.637 310545.738 796.63316 -0.02 WIL-44 799.595
2447303.637 310545.738 796.6266 -0.14 WIL-44 799.595
```

```
# C Tech Data Tool generated APDV File from W:\PROJECTS\LOCKHEADMARTIN\WILCOX\MVS\DATA\ROSTALLWILCOX_011216-REDUCED.APDV
(1/22/2016 10:08:00 AM)
x y z @@Fluorescence Boring Elevation
Elevation Ft
6033 1 %
2447722.759 310222.789 788.668 0.45 TF-11-01 788.668
2447722.759 310222.789 788.62208 0.07 TF-11-01 788.668
2447722.759 310222.789 788.3236 0.91 TF-11-01 788.668
2447722.759 310222.789 788.094 0.03 TF-11-01 788.668
2447722.759 310222.789 787.86112 0.17 TF-11-01 788.668
2447722.759 310222.789 787.62496 0.38 TF-11-01 788.668
2447722.759 310222.789 787.3888 0.29 TF-11-01 788.668
2447722.759 310222.789 787.0936 0.13 TF-11-01 788.668
2447722.759 310222.789 786.85744 -0.09 TF-11-01 788.668
2447722.759 310222.789 786.6016 -0.15 TF-11-01 788.668
2447722.759 310222.789 786.36216 0.19 TF-11-01 788.668
2447722.759 310222.789 786.10304 0.21 TF-11-01 788.668
2447722.759 310222.789 785.8636 0.26 TF-11-01 788.668
2447722.759 310222.789 785.62416 0.09 TF-11-01 788.668
2447722.759 310222.789 785.37816 0.09 TF-11-01 788.668
2447722.759 310222.789 785.12888 0.07 TF-11-01 788.668
2447722.759 310222.789 784.94848 0.04 TF-11-01 788.668
2447722.759 310222.789 784.85664 0 TF-11-01 788.668
2447722.759 310222.789 784.63688 0.02 TF-11-01 788.668
2447722.759 310222.789 784.3876 0.61 TF-11-01 788.668
2447722.759 310222.789 784.13504 0.51 TF-11-01 788.668
2447722.759 310222.789 783.84968 -0.32 TF-11-01 788.668
2447722.759 310222.789 783.59712 0.38 TF-11-01 788.668
2447722.759 310222.789 783.3708 0.17 TF-11-01 788.668
2447722.759 310222.789 783.13464 0.11 TF-11-01 788.668
2447722.759 310222.789 782.89192 -0.46 TF-11-01 788.668
2447722.759 310222.789 782.63936 0.04 TF-11-01 788.668
2447722.759 310222.789 782.38024 0.44 TF-11-01 788.668
2447722.759 310222.789 782.1244 -0.55 TF-11-01 788.668
2447722.759 310222.789 781.86856 -0.26 TF-11-01 788.668
2447722.759 310222.789 781.60616 -0.32 TF-11-01 788.668
2447722.759 310222.789 781.34704 0.8 TF-11-01 788.668
2447722.759 310222.789 781.08792 0.84 TF-11-01 788.668
2447722.759 310222.789 780.78616 0.04 TF-11-01 788.668
2447722.759 310222.789 780.52048 0.12 TF-11-01 788.668
2447722.759 310222.789 780.29744 0.25 TF-11-01 788.668
2447722.759 310222.789 780.06128 0.22 TF-11-01 788.668
2447722.759 310222.789 779.812 0.36 TF-11-01 788.668
2447722.759 310222.789 779.55944 0.37 TF-11-01 788.668
2447722.759 310222.789 779.3036 0.41 TF-11-01 788.668
2447722.759 310222.789 779.03792 0.38 TF-11-01 788.668
2447722.759 310222.789 778.77552 0.3 TF-11-01 788.668
2447722.759 310222.789 778.48032 0.37 TF-11-01 788.668
2447722.759 310222.789 778.21792 0.38 TF-11-01 788.668
2447722.759 310222.789 777.94896 0.38 TF-11-01 788.668
2447722.759 310222.789 777.68328 0.4 TF-11-01 788.668
2447722.759 310222.789 777.4176 0.33 TF-11-01 788.668
2447722.759 310222.789 777.14864 0.44 TF-11-01 788.668
2447722.759 310222.789 776.88296 0.39 TF-11-01 788.668
2447722.759 310222.789 776.6304 0.46 TF-11-01 788.668
2447722.759 310222.789 776.33192 0.23 TF-11-01 788.668
2447722.759 310222.789 776.06296 0.35 TF-11-01 788.668
2447722.759 310222.789 775.79072 0.43 TF-11-01 788.668
2447722.759 310222.789 775.52176 0.42 TF-11-01 788.668
2447722.759 310222.789 775.2528 0.35 TF-11-01 788.668
2447722.759 310222.789 774.97728 0.37 TF-11-01 788.668
2447722.759 310222.789 774.70176 0.46 TF-11-01 788.668
2447722.759 310222.789 774.44592 0.43 TF-11-01 788.668
2447722.759 310222.789 774.18352 0.16 TF-11-01 788.668
2447722.759 310222.789 773.93096 0.27 TF-11-01 788.668
2447722.759 310222.789 773.67184 0.45 TF-11-01 788.668
2447722.759 310222.789 773.41928 0.39 TF-11-01 788.668
2447722.759 310222.789 773.12408 0.47 TF-11-01 788.668
2447722.759 310222.789 772.85512 0.37 TF-11-01 788.668
2447722.759 310222.789 772.58616 0.39 TF-11-01 788.668
2447722.759 310222.789 772.32048 0.34 TF-11-01 788.668
2447722.759 310222.789 772.04824 0.38 TF-11-01 788.668
2447722.759 310222.789 771.776 0.38 TF-11-01 788.668
2447722.759 310222.789 771.47096 0.42 TF-11-01 788.668
2447722.759 310222.789 771.19872 0.42 TF-11-01 788.668
2447722.759 310222.789 770.92648 0.34 TF-11-01 788.668
2447722.759 310222.789 770.6936 0.15 TF-11-01 788.668
2447722.759 310222.789 770.3984 0.19 TF-11-01 788.668
2447722.759 310222.789 770.17208 0.28 TF-11-01 788.668
2447722.759 310222.789 769.89656 0.13 TF-11-01 788.668
2447722.759 310222.789 769.62104 0.19 TF-11-01 788.668
2447722.759 310222.789 769.30944 0.45 TF-11-01 788.668
2447722.759 310222.789 769.0372 0.41 TF-11-01 788.668
2447722.759 310222.789 768.7584 0.45 TF-11-01 788.668
2447722.759 310222.789 768.48288 0.4 TF-11-01 788.668
2447722.759 310222.789 768.20736 0.37 TF-11-01 788.668
2447722.759 310222.789 767.89576 0.46 TF-11-01 788.668
2447722.759 310222.789 767.61696 0.46 TF-11-01 788.668
2447722.759 310222.789 767.34144 0.45 TF-11-01 788.668
2447722.759 310222.789 767.08232 0.52 TF-11-01 788.668
2447722.759 310222.789 766.81008 0.45 TF-11-01 788.668
2447722.759 310222.789 766.50176 0.5 TF-11-01 788.668
2447722.759 310222.789 766.22296 0.49 TF-11-01 788.668
2447722.759 310222.789 765.94744 0.45 TF-11-01 788.668
2447722.759 310222.789 765.66536 0.48 TF-11-01 788.668
2447722.759 310222.789 765.38984 0.42 TF-11-01 788.668
2447722.759 310222.789 765.11104 0.49 TF-11-01 788.668
2447722.759 310222.789 764.79288 0.52 TF-11-01 788.668
2447722.759 310222.789 764.51408 0.1 TF-11-01 788.668
2447722.759 310222.789 764.25824 0.36 TF-11-01 788.668
2447722.759 310222.789 763.98928 0.48 TF-11-01 788.668
2447722.759 310222.789 763.7236 0.63 TF-11-01 788.668
```

```
2447722.759 310222.789 763.44152 0.45 TF-11-01 788.668
2447722.759 310222.789 763.16272 0.5 TF-11-01 788.668
2447722.759 310222.789 762.88392 0.48 TF-11-01 788.668
2447722.759 310222.789 762.56904 0.59 TF-11-01 788.668
2447722.759 310222.789 762.28368 0.54 TF-11-01 788.668
2447722.759 310222.789 762.0016 0.58 TF-11-01 788.668
2447722.759 310222.789 761.71952 0.48 TF-11-01 788.668
2447722.759 310222.789 761.43744 0.41 TF-11-01 788.668
2447722.759 310222.789 761.19144 0.37 TF-11-01 788.668
2447722.759 310222.789 760.93232 0.47 TF-11-01 788.668
2447722.759 310222.789 760.6732 0.47 TF-11-01 788.668
2447722.759 310222.789 760.40096 0.5 TF-11-01 788.668
2447722.759 310222.789 760.12872 0.39 TF-11-01 788.668
2447722.759 310222.789 759.85648 0.53 TF-11-01 788.668
2447722.759 310222.789 759.54816 0.47 TF-11-01 788.668
2447722.759 310222.789 759.27264 0.54 TF-11-01 788.668
2447722.759 310222.789 759.0004 0.51 TF-11-01 788.668
2447722.759 310222.789 758.7216 0.56 TF-11-01 788.668
2447722.759 310222.789 758.41328 0.56 TF-11-01 788.668
2447722.759 310222.789 758.08856 0.62 TF-11-01 788.668
2447722.759 310222.789 757.8032 0.56 TF-11-01 788.668
2447722.759 310222.789 757.53424 0.54 TF-11-01 788.668
2447722.759 310222.789 757.27184 0.57 TF-11-01 788.668
2447722.759 310222.789 756.9996 0.51 TF-11-01 788.668
2447722.759 310222.789 756.71752 0.62 TF-11-01 788.668
2447722.759 310222.789 756.39608 0.58 TF-11-01 788.668
2447722.759 310222.789 756.11072 0.59 TF-11-01 788.668
2447722.759 310222.789 755.82536 0.55 TF-11-01 788.668
2447722.759 310222.789 755.54 0.52 TF-11-01 788.668
2447722.759 310222.789 755.25464 0.52 TF-11-01 788.668
2447722.759 310222.789 754.96928 0.4 TF-11-01 788.668
2447722.759 310222.789 754.68392 0.62 TF-11-01 788.668
2447722.759 310222.789 754.41168 0.5 TF-11-01 788.668
2447722.759 310222.789 754.14272 0.47 TF-11-01 788.668
2447722.759 310222.789 753.87048 0.38 TF-11-01 788.668
2447722.759 310222.789 753.58512 0.49 TF-11-01 788.668
2447722.759 310222.789 753.29976 0.42 TF-11-01 788.668
2447722.759 310222.789 753.0144 0.47 TF-11-01 788.668
2447722.759 310222.789 752.73232 0.32 TF-11-01 788.668
2447722.759 310222.789 752.44696 0.03 TF-11-01 788.668
2447722.759 310222.789 752.15504 0.24 TF-11-01 788.668
2447722.759 310222.789 751.86968 0.42 TF-11-01 788.668
2447722.759 310222.789 751.58432 0.39 TF-11-01 788.668
2447722.759 310222.789 751.28256 0.31 TF-11-01 788.668
2447722.759 310222.789 751.01032 0.23 TF-11-01 788.668
2447722.759 310222.789 750.74464 0.29 TF-11-01 788.668
2447722.759 310222.789 750.46256 0.28 TF-11-01 788.668
2447722.759 310222.789 750.1772 0.27 TF-11-01 788.668
2447722.759 310222.789 749.85904 0.41 TF-11-01 788.668
2447722.759 310222.789 749.5704 0.43 TF-11-01 788.668
2447722.759 310222.789 749.28832 0.5 TF-11-01 788.668
2447722.759 310222.789 748.99968 0.17 TF-11-01 788.668
2447722.759 310222.789 748.71104 0.18 TF-11-01 788.668
2447722.759 310222.789 748.4224 0.18 TF-11-01 788.668
2447722.759 310222.789 748.15344 0.23 TF-11-01 788.668
2447722.759 310222.789 747.99928 0.26 TF-11-01 788.668
2447696.546 310191.777 788.751 0.84 TF-11-02 788.751
2447696.546 310191.777 788.505 1.97 TF-11-02 788.751
2447696.546 310191.777 788.27212 1.4 TF-11-02 788.751
2447696.546 310191.777 788.03924 1.08 TF-11-02 788.751
2447696.546 310191.777 787.80636 0.96 TF-11-02 788.751
2447696.546 310191.777 787.56692 0.96 TF-11-02 788.751
2447696.546 310191.777 787.33404 1 TF-11-02 788.751
2447696.546 310191.777 787.09132 0.78 TF-11-02 788.751
2447696.546 310191.777 786.78956 0.97 TF-11-02 788.751
2447696.546 310191.777 786.53044 1.08 TF-11-02 788.751
2447696.546 310191.777 786.28444 0.83 TF-11-02 788.751
2447696.546 310191.777 786.03516 0.95 TF-11-02 788.751
2447696.546 310191.777 785.78588 0.77 TF-11-02 788.751
2447696.546 310191.777 785.53332 0.81 TF-11-02 788.751
2447696.546 310191.777 785.27748 0.8 TF-11-02 788.751
2447696.546 310191.777 785.0282 0.8 TF-11-02 788.751
2447696.546 310191.777 784.74284 0.8 TF-11-02 788.751
2447696.546 310191.777 784.48372 0.82 TF-11-02 788.751
2447696.546 310191.777 784.23116 0.75 TF-11-02 788.751
2447696.546 310191.777 783.97204 0.74 TF-11-02 788.751
2447696.546 310191.777 783.7162 0.67 TF-11-02 788.751
2447696.546 310191.777 783.44396 0.65 TF-11-02 788.751
2447696.546 310191.777 783.19796 0.69 TF-11-02 788.751
2447696.546 310191.777 782.97164 0.66 TF-11-02 788.751
2447696.546 310191.777 782.71252 0.61 TF-11-02 788.751
2447696.546 310191.777 782.4534 0.58 TF-11-02 788.751
2447696.546 310191.777 782.19756 0.63 TF-11-02 788.751
2447696.546 310191.777 781.93844 0.62 TF-11-02 788.751
2447696.546 310191.777 781.67932 0.62 TF-11-02 788.751
2447696.546 310191.777 781.41692 0.61 TF-11-02 788.751
2447696.546 310191.777 781.1578 0.59 TF-11-02 788.751
2447696.546 310191.777 780.8954 0.62 TF-11-02 788.751
2447696.546 310191.777 780.62972 0.58 TF-11-02 788.751
2447696.546 310191.777 780.36404 0.64 TF-11-02 788.751
2447696.546 310191.777 780.13772 0.68 TF-11-02 788.751
2447696.546 310191.777 779.87532 0.6 TF-11-02 788.751
2447696.546 310191.777 779.60964 0.63 TF-11-02 788.751
2447696.546 310191.777 779.34068 0.62 TF-11-02 788.751
2447696.546 310191.777 779.07828 0.61 TF-11-02 788.751
2447696.546 310191.777 778.8126 0.51 TF-11-02 788.751
2447696.546 310191.777 778.51084 0.55 TF-11-02 788.751
2447696.546 310191.777 778.24188 0.54 TF-11-02 788.751
2447696.546 310191.777 777.9762 0.54 TF-11-02 788.751
2447696.546 310191.777 777.67772 0.64 TF-11-02 788.751
2447696.546 310191.777 777.40876 0.43 TF-11-02 788.751
2447696.546 310191.777 777.11356 0.52 TF-11-02 788.751
```

```
2447696.546 310191.777 776.85772 0.54 TF-11-02 788.751
2447696.546 310191.777 776.59204 0.52 TF-11-02 788.751
2447696.546 310191.777 776.32308 0.67 TF-11-02 788.751
2447696.546 310191.777 776.04428 0.61 TF-11-02 788.751
2447696.546 310191.777 775.7786 0.7 TF-11-02 788.751
2447696.546 310191.777 775.50964 0.78 TF-11-02 788.751
2447696.546 310191.777 775.20788 0.72 TF-11-02 788.751
2447696.546 310191.777 774.93892 0.77 TF-11-02 788.751
2447696.546 310191.777 774.66668 0.76 TF-11-02 788.751
2447696.546 310191.777 774.39444 0.76 TF-11-02 788.751
2447696.546 310191.777 774.12548 0.83 TF-11-02 788.751
2447696.546 310191.777 773.85324 0.94 TF-11-02 788.751
2447696.546 310191.777 773.62036 0.87 TF-11-02 788.751
2447696.546 310191.777 773.34484 0.7 TF-11-02 788.751
2447696.546 310191.777 773.06932 0.68 TF-11-02 788.751
2447696.546 310191.777 772.79052 0.76 TF-11-02 788.751
2447696.546 310191.777 772.515 1.06 TF-11-02 788.751
2447696.546 310191.777 772.2362 0.87 TF-11-02 788.751
2447696.546 310191.777 771.9574 0.76 TF-11-02 788.751
2447696.546 310191.777 771.67532 0.67 TF-11-02 788.751
2447696.546 310191.777 771.36044 0.66 TF-11-02 788.751
2447696.546 310191.777 771.08164 0.61 TF-11-02 788.751
2447696.546 310191.777 770.79956 0.69 TF-11-02 788.751
2447696.546 310191.777 770.56012 0.7 TF-11-02 788.751
2447696.546 310191.777 770.26492 0.71 TF-11-02 788.751
2447696.546 310191.777 769.98284 0.99 TF-11-02 788.751
2447696.546 310191.777 769.7106 0.86 TF-11-02 788.751
2447696.546 310191.777 769.44164 1.23 TF-11-02 788.751
2447696.546 310191.777 769.17268 0.96 TF-11-02 788.751
2447696.546 310191.777 768.90372 0.8 TF-11-02 788.751
2447696.546 310191.777 768.63476 0.85 TF-11-02 788.751
2447696.546 310191.777 768.3658 0.84 TF-11-02 788.751
2447696.546 310191.777 768.12964 0.83 TF-11-02 788.751
2447696.546 310191.777 767.8574 0.81 TF-11-02 788.751
2447696.546 310191.777 767.59172 0.76 TF-11-02 788.751
2447696.546 310191.777 767.35884 0.89 TF-11-02 788.751
2447696.546 310191.777 767.11284 0.94 TF-11-02 788.751
2447696.546 310191.777 766.84388 0.95 TF-11-02 788.751
2447696.546 310191.777 766.57492 0.91 TF-11-02 788.751
2447696.546 310191.777 766.26332 0.82 TF-11-02 788.751
2447696.546 310191.777 765.99108 0.84 TF-11-02 788.751
2447696.546 310191.777 765.71884 0.78 TF-11-02 788.751
2447696.546 310191.777 765.40724 0.83 TF-11-02 788.751
2447696.546 310191.777 765.13172 0.75 TF-11-02 788.751
2447696.546 310191.777 764.85948 0.84 TF-11-02 788.751
2447696.546 310191.777 764.58396 0.82 TF-11-02 788.751
2447696.546 310191.777 764.30516 0.75 TF-11-02 788.751
2447696.546 310191.777 764.07884 0.81 TF-11-02 788.751
2447696.546 310191.777 763.75412 0.78 TF-11-02 788.751
2447696.546 310191.777 763.48188 0.7 TF-11-02 788.751
2447696.546 310191.777 763.20636 0.74 TF-11-02 788.751
2447696.546 310191.777 762.93084 0.59 TF-11-02 788.751
2447696.546 310191.777 762.65204 0.66 TF-11-02 788.751
2447696.546 310191.777 762.36996 0.67 TF-11-02 788.751
2447696.546 310191.777 762.09116 0.66 TF-11-02 788.751
2447696.546 310191.777 761.77628 0.68 TF-11-02 788.751
2447696.546 310191.777 761.49748 0.67 TF-11-02 788.751
2447696.546 310191.777 761.22196 0.6 TF-11-02 788.751
2447696.546 310191.777 760.94316 0.68 TF-11-02 788.751
2447696.546 310191.777 760.72012 0.63 TF-11-02 788.751
2447696.546 310191.777 760.4446 0.63 TF-11-02 788.751
2447696.546 310191.777 760.17236 0.62 TF-11-02 788.751
2447696.546 310191.777 759.86076 0.58 TF-11-02 788.751
2447696.546 310191.777 759.58196 0.61 TF-11-02 788.751
2447696.546 310191.777 759.29988 0.62 TF-11-02 788.751
2447696.546 310191.777 759.02108 0.6 TF-11-02 788.751
2447696.546 310191.777 758.739 0.6 TF-11-02 788.751
2447696.546 310191.777 758.42412 0.58 TF-11-02 788.751
2447696.546 310191.777 758.14532 0.61 TF-11-02 788.751
2447696.546 310191.777 757.85996 0.63 TF-11-02 788.751
2447696.546 310191.777 757.63692 0.6 TF-11-02 788.751
2447696.546 310191.777 757.3614 0.53 TF-11-02 788.751
2447696.546 310191.777 757.0826 0.62 TF-11-02 788.751
2447696.546 310191.777 756.7874 0.61 TF-11-02 788.751
2447696.546 310191.777 756.4922 0.57 TF-11-02 788.751
2447696.546 310191.777 756.21996 0.52 TF-11-02 788.751
2447696.546 310191.777 755.95428 0.49 TF-11-02 788.751
2447696.546 310191.777 755.69188 0.47 TF-11-02 788.751
2447696.546 310191.777 755.4262 0.45 TF-11-02 788.751
2447696.546 310191.777 755.15724 0.48 TF-11-02 788.751
2447696.546 310191.777 754.88828 0.46 TF-11-02 788.751
2447696.546 310191.777 754.61932 0.49 TF-11-02 788.751
2447696.546 310191.777 754.35364 0.54 TF-11-02 788.751
2447696.546 310191.777 754.05844 0.53 TF-11-02 788.751
2447696.546 310191.777 753.79276 0.46 TF-11-02 788.751
2447696.546 310191.777 753.5238 0.51 TF-11-02 788.751
2447696.546 310191.777 753.25156 0.53 TF-11-02 788.751
2447696.546 310191.777 752.95636 0.53 TF-11-02 788.751
2447696.546 310191.777 752.68412 0.53 TF-11-02 788.751
2447696.546 310191.777 752.41844 0.51 TF-11-02 788.751
2447696.546 310191.777 752.14948 0.47 TF-11-02 788.751
2447696.546 310191.777 751.851 0.51 TF-11-02 788.751
2447696.546 310191.777 751.57876 0.51 TF-11-02 788.751
2447696.546 310191.777 751.3098 0.53 TF-11-02 788.751
2447696.546 310191.777 751.05396 0.41 TF-11-02 788.751
2447696.546 310191.777 750.78828 0.36 TF-11-02 788.751
2447696.546 310191.777 750.51932 0.39 TF-11-02 788.751
2447696.546 310191.777 750.25036 0.42 TF-11-02 788.751
2447696.546 310191.777 749.95188 0.44 TF-11-02 788.751
2447696.546 310191.777 749.68292 0.41 TF-11-02 788.751
2447696.546 310191.777 749.41396 0.41 TF-11-02 788.751
2447696.546 310191.777 749.14172 0.44 TF-11-02 788.751
```

```
2447696.546 310191.777 748.83668 0.42 TF-11-02 788.751
2447696.546 310191.777 748.56444 0.44 TF-11-02 788.751
2447696.546 310191.777 748.2922 0.42 TF-11-02 788.751
2447696.546 310191.777 748.01996 0.4 TF-11-02 788.751
2447696.546 310191.777 747.92484 0.36 TF-11-02 788.751
2447731.22 310194.651 788.576 0.61 TF-11-03 788.576
2447731.22 310194.651 788.26112 0.9 TF-11-03 788.576
2447731.22 310194.651 788.00528 0.82 TF-11-03 788.576
2447731.22 310194.651 787.74288 0.82 TF-11-03 788.576
2447731.22 310194.651 787.48704 0.84 TF-11-03 788.576
2447731.22 310194.651 787.22464 0.74 TF-11-03 788.576
2447731.22 310194.651 786.96552 0.69 TF-11-03 788.576
2447731.22 310194.651 786.7064 0.7 TF-11-03 788.576
2447731.22 310194.651 786.39152 0.83 TF-11-03 788.576
2447731.22 310194.651 786.1324 0.76 TF-11-03 788.576
2447731.22 310194.651 785.86016 0.81 TF-11-03 788.576
2447731.22 310194.651 785.58136 0.79 TF-11-03 788.576
2447731.22 310194.651 785.29928 0.73 TF-11-03 788.576
2447731.22 310194.651 785.02048 0.83 TF-11-03 788.576
2447731.22 310194.651 784.73184 0.88 TF-11-03 788.576
2447731.22 310194.651 784.41368 1.01 TF-11-03 788.576
2447731.22 310194.651 784.12504 1.12 TF-11-03 788.576
2447731.22 310194.651 783.84296 3.3 TF-11-03 788.576
2447731.22 310194.651 783.55104 12.77 TF-11-03 788.576
2447731.22 310194.651 783.23944 15.17 TF-11-03 788.576
2447731.22 310194.651 782.97048 54.47 TF-11-03 788.576
2447731.22 310194.651 782.69496 62.88 TF-11-03 788.576
2447731.22 310194.651 782.41616 105.04 TF-11-03 788.576
2447731.22 310194.651 782.12752 93.27 TF-11-03 788.576
2447731.22 310194.651 781.84544 54.84 TF-11-03 788.576
2447731.22 310194.651 781.56336 48.57 TF-11-03 788.576
2447731.22 310194.651 781.278 32.29 TF-11-03 788.576
2447731.22 310194.651 780.99264 27.83 TF-11-03 788.576
2447731.22 310194.651 780.704 18.89 TF-11-03 788.576
2447731.22 310194.651 780.41864 15.42 TF-11-03 788.576
2447731.22 310194.651 780.10704 13.76 TF-11-03 788.576
2447731.22 310194.651 779.85448 7.2 TF-11-03 788.576
2447731.22 310194.651 779.5396 2.95 TF-11-03 788.576
2447731.22 310194.651 779.25424 2.33 TF-11-03 788.576
2447731.22 310194.651 778.97216 0.97 TF-11-03 788.576
2447731.22 310194.651 778.68024 0.62 TF-11-03 788.576
2447731.22 310194.651 778.38832 0.67 TF-11-03 788.576
2447731.22 310194.651 778.09312 0.52 TF-11-03 788.576
2447731.22 310194.651 777.8012 0.53 TF-11-03 788.576
2447731.22 310194.651 777.50928 0.62 TF-11-03 788.576
2447731.22 310194.651 777.21408 0.54 TF-11-03 788.576
2447731.22 310194.651 776.98776 0.73 TF-11-03 788.576
2447731.22 310194.651 776.74504 0.7 TF-11-03 788.576
2447731.22 310194.651 776.44 0.47 TF-11-03 788.576
2447731.22 310194.651 776.14808 0.51 TF-11-03 788.576
2447731.22 310194.651 775.85944 0.48 TF-11-03 788.576
2447731.22 310194.651 775.60688 0.43 TF-11-03 788.576
2447731.22 310194.651 775.31824 0.59 TF-11-03 788.576
2447731.22 310194.651 775.0296 0.48 TF-11-03 788.576
2447731.22 310194.651 774.79344 0.5 TF-11-03 788.576
2447731.22 310194.651 774.554 0.5 TF-11-03 788.576
2447731.22 310194.651 774.30144 0.5 TF-11-03 788.576
2447731.22 310194.651 774.00952 0.53 TF-11-03 788.576
2447731.22 310194.651 773.76024 0.41 TF-11-03 788.576
2447731.22 310194.651 773.44864 0.42 TF-11-03 788.576
2447731.22 310194.651 773.20264 0.45 TF-11-03 788.576
2447731.22 310194.651 772.95336 0.43 TF-11-03 788.576
2447731.22 310194.651 772.70408 0.46 TF-11-03 788.576
2447731.22 310194.651 772.45152 0.51 TF-11-03 788.576
2447731.22 310194.651 772.20552 0.48 TF-11-03 788.576
2447731.22 310194.651 771.94968 0.42 TF-11-03 788.576
2447731.22 310194.651 771.63152 0.42 TF-11-03 788.576
2447731.22 310194.651 771.37896 0.42 TF-11-03 788.576
2447731.22 310194.651 771.1264 0.39 TF-11-03 788.576
2447731.22 310194.651 770.86728 0.44 TF-11-03 788.576
2447731.22 310194.651 770.56552 0.46 TF-11-03 788.576
2447731.22 310194.651 770.32936 0.45 TF-11-03 788.576
2447731.22 310194.651 770.0768 0.42 TF-11-03 788.576
2447731.22 310194.651 769.81768 0.42 TF-11-03 788.576
2447731.22 310194.651 769.5848 0.41 TF-11-03 788.576
2447731.22 310194.651 769.32568 0.47 TF-11-03 788.576
2447731.22 310194.651 769.06656 0.44 TF-11-03 788.576
2447731.22 310194.651 768.80416 0.46 TF-11-03 788.576
2447731.22 310194.651 768.53848 0.5 TF-11-03 788.576
2447731.22 310194.651 768.27936 0.5 TF-11-03 788.576
2447731.22 310194.651 768.01368 0.47 TF-11-03 788.576
2447731.22 310194.651 767.75128 0.52 TF-11-03 788.576
2447731.22 310194.651 767.47576 0.49 TF-11-03 788.576
2447731.22 310194.651 767.23632 0.58 TF-11-03 788.576
2447731.22 310194.651 766.98048 0.54 TF-11-03 788.576
2447731.22 310194.651 766.72136 0.63 TF-11-03 788.576
2447731.22 310194.651 766.45896 0.61 TF-11-03 788.576
2447731.22 310194.651 766.22936 0.59 TF-11-03 788.576
2447731.22 310194.651 765.97024 0.61 TF-11-03 788.576
2447731.22 310194.651 765.70784 0.62 TF-11-03 788.576
2447731.22 310194.651 765.44544 0.57 TF-11-03 788.576
2447731.22 310194.651 765.17976 0.61 TF-11-03 788.576
2447731.22 310194.651 764.91736 0.58 TF-11-03 788.576
2447731.22 310194.651 764.65168 0.56 TF-11-03 788.576
2447731.22 310194.651 764.42208 0.55 TF-11-03 788.576
2447731.22 310194.651 764.17608 0.54 TF-11-03 788.576
2447731.22 310194.651 763.9268 0.53 TF-11-03 788.576
2447731.22 310194.651 763.67096 0.53 TF-11-03 788.576
2447731.22 310194.651 763.40528 0.56 TF-11-03 788.576
2447731.22 310194.651 763.1396 0.5 TF-11-03 788.576
2447731.22 310194.651 762.91 0.53 TF-11-03 788.576
2447731.22 310194.651 762.64432 0.52 TF-11-03 788.576
```

```
2447731.22 310194.651 762.37864 0.5 TF-11-03 788.576
2447731.22 310194.651 762.11296 0.62 TF-11-03 788.576
2447731.22 310194.651 761.84728 0.6 TF-11-03 788.576
2447731.22 310194.651 761.5816 0.59 TF-11-03 788.576
2447731.22 310194.651 761.25688 0.53 TF-11-03 788.576
2447731.22 310194.651 760.98792 0.56 TF-11-03 788.576
2447731.22 310194.651 760.75176 0.5 TF-11-03 788.576
2447731.22 310194.651 760.43688 0.51 TF-11-03 788.576
2447731.22 310194.651 760.11872 0.5 TF-11-03 788.576
2447731.22 310194.651 759.8596 0.54 TF-11-03 788.576
2447731.22 310194.651 759.59064 0.57 TF-11-03 788.576
2447731.22 310194.651 759.32496 0.53 TF-11-03 788.576
2447731.22 310194.651 759.05928 0.52 TF-11-03 788.576
2447731.22 310194.651 758.7936 0.55 TF-11-03 788.576
2447731.22 310194.651 758.52464 0.53 TF-11-03 788.576
2447731.22 310194.651 758.28848 0.54 TF-11-03 788.576
2447731.22 310194.651 757.99 0.55 TF-11-03 788.576
2447731.22 310194.651 757.75384 0.51 TF-11-03 788.576
2447731.22 310194.651 757.45536 0.54 TF-11-03 788.576
2447731.22 310194.651 757.2028 0.47 TF-11-03 788.576
2447731.22 310194.651 756.94696 0.5 TF-11-03 788.576
2447731.22 310194.651 756.68784 0.49 TF-11-03 788.576
2447731.22 310194.651 756.4648 0.51 TF-11-03 788.576
2447731.22 310194.651 756.2024 0.47 TF-11-03 788.576
2447731.22 310194.651 755.94656 0.45 TF-11-03 788.576
2447731.22 310194.651 755.68416 0.5 TF-11-03 788.576
2447731.22 310194.651 755.4152 0.5 TF-11-03 788.576
2447731.22 310194.651 755.1528 0.47 TF-11-03 788.576
2447731.22 310194.651 754.88384 0.51 TF-11-03 788.576
2447731.22 310194.651 754.61816 0.5 TF-11-03 788.576
2447731.22 310194.651 754.34592 0.47 TF-11-03 788.576
2447731.22 310194.651 754.0868 0.46 TF-11-03 788.576
2447731.22 310194.651 753.82112 0.46 TF-11-03 788.576
2447731.22 310194.651 753.59808 0.43 TF-11-03 788.576
2447731.22 310194.651 753.2996 0.39 TF-11-03 788.576
2447731.22 310194.651 753.02736 0.33 TF-11-03 788.576
2447731.22 310194.651 752.76168 0.47 TF-11-03 788.576
2447731.22 310194.651 752.49272 0.39 TF-11-03 788.576
2447731.22 310194.651 752.25656 0.44 TF-11-03 788.576
2447731.22 310194.651 751.9876 0.36 TF-11-03 788.576
2447731.22 310194.651 751.68584 0.46 TF-11-03 788.576
2447731.22 310194.651 751.44968 0.56 TF-11-03 788.576
2447731.22 310194.651 751.1512 0.49 TF-11-03 788.576
2447731.22 310194.651 750.9052 0.41 TF-11-03 788.576
2447731.22 310194.651 750.63952 0.43 TF-11-03 788.576
2447731.22 310194.651 750.37384 0.43 TF-11-03 788.576
2447731.22 310194.651 750.10488 0.47 TF-11-03 788.576
2447731.22 310194.651 749.8392 0.46 TF-11-03 788.576
2447731.22 310194.651 749.57024 0.99 TF-11-03 788.576
2447731.22 310194.651 749.30456 0.52 TF-11-03 788.576
2447731.22 310194.651 749.0356 0.52 TF-11-03 788.576
2447731.22 310194.651 748.76336 0.51 TF-11-03 788.576
2447731.22 310194.651 748.49768 0.5 TF-11-03 788.576
2447731.22 310194.651 748.3632 0.53 TF-11-03 788.576
2447776.968 310189.774 789.136 0.63 TF-11-04 789.136
2447776.968 310189.774 788.89984 0.68 TF-11-04 789.136
2447776.968 310189.774 788.65712 0.67 TF-11-04 789.136
2447776.968 310189.774 788.41112 0.81 TF-11-04 789.136
2447776.968 310189.774 788.07328 0.55 TF-11-04 789.136
2447776.968 310189.774 787.83056 0.47 TF-11-04 789.136
2447776.968 310189.774 787.56816 0.58 TF-11-04 789.136
2447776.968 310189.774 787.32216 0.49 TF-11-04 789.136
2447776.968 310189.774 787.03352 0.4 TF-11-04 789.136
2447776.968 310189.774 786.78096 0.48 TF-11-04 789.136
2447776.968 310189.774 786.49232 0.49 TF-11-04 789.136
2447776.968 310189.774 786.23976 0.39 TF-11-04 789.136
2447776.968 310189.774 785.98392 0.32 TF-11-04 789.136
2447776.968 310189.774 785.7248 0.45 TF-11-04 789.136
2447776.968 310189.774 785.4624 0.39 TF-11-04 789.136
2447776.968 310189.774 785.17048 0.36 TF-11-04 789.136
2447776.968 310189.774 784.91136 0.35 TF-11-04 789.136
2447776.968 310189.774 784.65224 0.35 TF-11-04 789.136
2447776.968 310189.774 784.37672 0.33 TF-11-04 789.136
2447776.968 310189.774 784.134 0.39 TF-11-04 789.136
2447776.968 310189.774 783.88472 0.37 TF-11-04 789.136
2447776.968 310189.774 783.59608 0.31 TF-11-04 789.136
2447776.968 310189.774 783.33368 0.47 TF-11-04 789.136
2447776.968 310189.774 783.06472 0.45 TF-11-04 789.136
2447776.968 310189.774 782.80232 0.44 TF-11-04 789.136
2447776.968 310189.774 782.53336 0.49 TF-11-04 789.136
2447776.968 310189.774 782.2644 0.32 TF-11-04 789.136
2447776.968 310189.774 781.99544 0.38 TF-11-04 789.136
2447776.968 310189.774 781.7232 0.87 TF-11-04 789.136
2447776.968 310189.774 781.44768 0.49 TF-11-04 789.136
2447776.968 310189.774 781.2148 0.53 TF-11-04 789.136
2447776.968 310189.774 780.93928 1.72 TF-11-04 789.136
2447776.968 310189.774 780.67032 0.86 TF-11-04 789.136
2447776.968 310189.774 780.41776 1.23 TF-11-04 789.136
2447776.968 310189.774 780.15536 4.09 TF-11-04 789.136
2447776.968 310189.774 779.88968 3.75 TF-11-04 789.136
2447776.968 310189.774 779.61744 2.13 TF-11-04 789.136
2447776.968 310189.774 779.34192 1.82 TF-11-04 789.136
2447776.968 310189.774 779.0336 2 TF-11-04 789.136
2447776.968 310189.774 778.75808 1.18 TF-11-04 789.136
2447776.968 310189.774 778.47928 2.42 TF-11-04 789.136
2447776.968 310189.774 778.20376 3.27 TF-11-04 789.136
2447776.968 310189.774 777.92496 1.26 TF-11-04 789.136
2447776.968 310189.774 777.64944 7.72 TF-11-04 789.136
2447776.968 310189.774 777.3936 1.96 TF-11-04 789.136
2447776.968 310189.774 777.1312 0.94 TF-11-04 789.136
2447776.968 310189.774 776.82944 0.77 TF-11-04 789.136
2447776.968 310189.774 776.55064 2.27 TF-11-04 789.136
```

2447776.968 310189.774 776.27184 2.01 TF-11-04 789.136
2447776.968 310189.774 775.99304 1.2 TF-11-04 789.136
2447776.968 310189.774 775.70768 6.57 TF-11-04 789.136
2447776.968 310189.774 775.39608 5.26 TF-11-04 789.136
2447776.968 310189.774 775.07792 1.71 TF-11-04 789.136
2447776.968 310189.774 774.79584 0.49 TF-11-04 789.136
2447776.968 310189.774 774.51376 0.39 TF-11-04 789.136
2447776.968 310189.774 774.26776 0.48 TF-11-04 789.136
2447776.968 310189.774 773.99552 0.44 TF-11-04 789.136
2447776.968 310189.774 773.6872 0.48 TF-11-04 789.136
2447776.968 310189.774 773.40184 0.41 TF-11-04 789.136
2447776.968 310189.774 773.1132 0.42 TF-11-04 789.136
2447776.968 310189.774 772.82784 0.32 TF-11-04 789.136
2447776.968 310189.774 772.50312 0.32 TF-11-04 789.136
2447776.968 310189.774 772.21776 0.42 TF-11-04 789.136
2447776.968 310189.774 771.92584 0.31 TF-11-04 789.136
2447776.968 310189.774 771.6372 0.34 TF-11-04 789.136
2447776.968 310189.774 771.34528 0.37 TF-11-04 789.136
2447776.968 310189.774 771.08944 0.33 TF-11-04 789.136
2447776.968 310189.774 770.7844 0.38 TF-11-04 789.136
2447776.968 310189.774 770.50232 0.35 TF-11-04 789.136
2447776.968 310189.774 770.26288 0.4 TF-11-04 789.136
2447776.968 310189.774 770.1284 0.46 TF-11-04 789.136
2447742.68 310149.458 789.095 0.5 TF-11-05 789.095
2447742.68 310149.458 788.8162 1.22 TF-11-05 789.095
2447742.68 310149.458 788.54068 1 TF-11-05 789.095
2447742.68 310149.458 788.23236 0.71 TF-11-05 789.095
2447742.68 310149.458 787.99292 0.92 TF-11-05 789.095
2447742.68 310149.458 787.76004 0.91 TF-11-05 789.095
2447742.68 310149.458 787.50748 0.87 TF-11-05 789.095
2447742.68 310149.458 787.25492 0.8 TF-11-05 789.095
2447742.68 310149.458 787.01548 0.79 TF-11-05 789.095
2447742.68 310149.458 786.7334 0.82 TF-11-05 789.095
2447742.68 310149.458 786.48084 0.58 TF-11-05 789.095
2447742.68 310149.458 786.225 0.66 TF-11-05 789.095
2447742.68 310149.458 785.96916 0.75 TF-11-05 789.095
2447742.68 310149.458 785.71332 0.7 TF-11-05 789.095
2447742.68 310149.458 785.4542 0.62 TF-11-05 789.095
2447742.68 310149.458 785.18852 0.72 TF-11-05 789.095
2447742.68 310149.458 784.92612 0.73 TF-11-05 789.095
2447742.68 310149.458 784.66372 0.74 TF-11-05 789.095
2447742.68 310149.458 784.40132 0.68 TF-11-05 789.095
2447742.68 310149.458 784.13564 1.46 TF-11-05 789.095
2447742.68 310149.458 783.85356 2.13 TF-11-05 789.095
2447742.68 310149.458 783.59116 4.01 TF-11-05 789.095
2447742.68 310149.458 783.32548 8.32 TF-11-05 789.095
2447742.68 310149.458 783.08932 6.54 TF-11-05 789.095
2447742.68 310149.458 782.82036 7.72 TF-11-05 789.095
2447742.68 310149.458 782.5514 2.36 TF-11-05 789.095
2447742.68 310149.458 782.27916 6.22 TF-11-05 789.095
2447742.68 310149.458 782.00692 19.53 TF-11-05 789.095
2447742.68 310149.458 781.7314 9.48 TF-11-05 789.095
2447742.68 310149.458 781.45588 13.31 TF-11-05 789.095
2447742.68 310149.458 781.18364 48.81 TF-11-05 789.095
2447742.68 310149.458 780.90484 37.46 TF-11-05 789.095
2447742.68 310149.458 780.62932 20.58 TF-11-05 789.095
2447742.68 310149.458 780.37676 8.83 TF-11-05 789.095
2447742.68 310149.458 780.1078 13.35 TF-11-05 789.095
2447742.68 310149.458 779.80604 13.6 TF-11-05 789.095
2447742.68 310149.458 779.53708 24.99 TF-11-05 789.095
2447742.68 310149.458 779.26812 26.3 TF-11-05 789.095
2447742.68 310149.458 778.99588 15.51 TF-11-05 789.095
2447742.68 310149.458 778.72364 13.4 TF-11-05 789.095
2447742.68 310149.458 778.44812 4.59 TF-11-05 789.095
2447742.68 310149.458 778.17588 4.6 TF-11-05 789.095
2447742.68 310149.458 777.90364 3.4 TF-11-05 789.095
2447742.68 310149.458 777.6478 1.92 TF-11-05 789.095
2447742.68 310149.458 777.38868 0.72 TF-11-05 789.095
2447742.68 310149.458 777.11644 0.8 TF-11-05 789.095
2447742.68 310149.458 776.84092 0.72 TF-11-05 789.095
2447742.68 310149.458 776.5654 0.7 TF-11-05 789.095
2447742.68 310149.458 776.2866 0.78 TF-11-05 789.095
2447742.68 310149.458 776.0406 0.62 TF-11-05 789.095
2447742.68 310149.458 775.75852 0.7 TF-11-05 789.095
2447742.68 310149.458 775.47972 0.62 TF-11-05 789.095
2447742.68 310149.458 775.19764 0.77 TF-11-05 789.095
2447742.68 310149.458 774.91556 0.68 TF-11-05 789.095
2447742.68 310149.458 774.67612 0.62 TF-11-05 789.095
2447742.68 310149.458 774.417 0.6 TF-11-05 789.095
2447742.68 310149.458 774.18412 0.64 TF-11-05 789.095
2447742.68 310149.458 773.90532 0.68 TF-11-05 789.095
2447742.68 310149.458 773.62652 0.7 TF-11-05 789.095
2447742.68 310149.458 773.34772 0.83 TF-11-05 789.095
2447742.68 310149.458 773.06564 0.89 TF-11-05 789.095
2447742.68 310149.458 772.78028 0.71 TF-11-05 789.095
2447742.68 310149.458 772.46212 0.5 TF-11-05 789.095
2447742.68 310149.458 772.21284 0.8 TF-11-05 789.095
2447742.68 310149.458 771.9242 0.67 TF-11-05 789.095
2447742.68 310149.458 771.63884 0.68 TF-11-05 789.095
2447742.68 310149.458 771.37644 0.74 TF-11-05 789.095
2447742.68 310149.458 771.11732 0.77 TF-11-05 789.095
2447742.68 310149.458 770.85492 0.82 TF-11-05 789.095
2447742.68 310149.458 770.57284 0.82 TF-11-05 789.095
2447742.68 310149.458 770.3006 0.78 TF-11-05 789.095
2447742.68 310149.458 770.0218 0.79 TF-11-05 789.095
2447742.68 310149.458 769.74628 0.92 TF-11-05 789.095
2447742.68 310149.458 769.50356 0.87 TF-11-05 789.095
2447742.68 310149.458 769.22476 0.88 TF-11-05 789.095
2447742.68 310149.458 768.94268 0.98 TF-11-05 789.095
2447742.68 310149.458 768.6606 0.96 TF-11-05 789.095
2447742.68 310149.458 768.43756 1 TF-11-05 789.095
2447742.68 310149.458 768.19484 0.97 TF-11-05 789.095

```
2447742.68 310149.458 767.90292 0.93 TF-11-05 789.095
2447742.68 310149.458 767.59788 0.88 TF-11-05 789.095
2447742.68 310149.458 767.26988 0.97 TF-11-05 789.095
2447742.68 310149.458 766.97796 0.91 TF-11-05 789.095
2447742.68 310149.458 766.68276 0.97 TF-11-05 789.095
2447742.68 310149.458 766.39084 0.92 TF-11-05 789.095
2447742.68 310149.458 766.09236 0.85 TF-11-05 789.095
2447742.68 310149.458 765.79388 0.77 TF-11-05 789.095
2447742.68 310149.458 765.55444 0.83 TF-11-05 789.095
2447742.68 310149.458 765.30188 0.82 TF-11-05 789.095
2447742.68 310149.458 765.05588 0.92 TF-11-05 789.095
2447742.68 310149.458 764.75412 0.82 TF-11-05 789.095
2447742.68 310149.458 764.44252 0.87 TF-11-05 789.095
2447742.68 310149.458 764.18668 0.89 TF-11-05 789.095
2447742.68 310149.458 763.89476 0.79 TF-11-05 789.095
2447742.68 310149.458 763.66188 0.87 TF-11-05 789.095
2447742.68 310149.458 763.40604 0.82 TF-11-05 789.095
2447742.68 310149.458 763.13052 0.82 TF-11-05 789.095
2447742.68 310149.458 762.9042 0.81 TF-11-05 789.095
2447742.68 310149.458 762.6418 0.99 TF-11-05 789.095
2447742.68 310149.458 762.40892 0.83 TF-11-05 789.095
2447742.68 310149.458 762.11044 0.81 TF-11-05 789.095
2447742.68 310149.458 761.8382 0.8 TF-11-05 789.095
2447742.68 310149.458 761.60204 0.76 TF-11-05 789.095
2447742.68 310149.458 761.32652 0.73 TF-11-05 789.095
2447742.68 310149.458 761.03788 0.67 TF-11-05 789.095
2447742.68 310149.458 760.78532 0.68 TF-11-05 789.095
2447742.68 310149.458 760.49012 0.72 TF-11-05 789.095
2447742.68 310149.458 760.2638 0.67 TF-11-05 789.095
2447742.68 310149.458 759.95876 0.61 TF-11-05 789.095
2447742.68 310149.458 759.657 0.61 TF-11-05 789.095
2447742.68 310149.458 759.35196 0.68 TF-11-05 789.095
2447742.68 310149.458 759.0502 0.62 TF-11-05 789.095
2447742.68 310149.458 758.78452 0.65 TF-11-05 789.095
2447742.68 310149.458 758.48932 0.63 TF-11-05 789.095
2447742.68 310149.458 758.20068 0.58 TF-11-05 789.095
2447742.68 310149.458 757.89892 0.7 TF-11-05 789.095
2447742.68 310149.458 757.60044 0.84 TF-11-05 789.095
2447742.68 310149.458 757.3282 0.78 TF-11-05 789.095
2447742.68 310149.458 757.10188 0.78 TF-11-05 789.095
2447742.68 310149.458 756.79684 0.74 TF-11-05 789.095
2447742.68 310149.458 756.48852 0.74 TF-11-05 789.095
2447742.68 310149.458 756.21956 0.71 TF-11-05 789.095
2447742.68 310149.458 755.99324 0.82 TF-11-05 789.095
2447742.68 310149.458 755.72428 0.7 TF-11-05 789.095
2447742.68 310149.458 755.43564 0.71 TF-11-05 789.095
2447742.68 310149.458 755.18636 0.71 TF-11-05 789.095
2447742.68 310149.458 754.96332 0.85 TF-11-05 789.095
2447742.68 310149.458 754.72716 0.71 TF-11-05 789.095
2447742.68 310149.458 754.49756 0.67 TF-11-05 789.095
2447742.68 310149.458 754.25484 0.73 TF-11-05 789.095
2447742.68 310149.458 754.00228 0.7 TF-11-05 789.095
2447742.68 310149.458 753.74972 0.77 TF-11-05 789.095
2447742.68 310149.458 753.50044 0.57 TF-11-05 789.095
2447742.68 310149.458 753.18556 0.56 TF-11-05 789.095
2447742.68 310149.458 752.933 0.65 TF-11-05 789.095
2447742.68 310149.458 752.67716 0.59 TF-11-05 789.095
2447742.68 310149.458 752.4246 0.68 TF-11-05 789.095
2447742.68 310149.458 752.16876 0.7 TF-11-05 789.095
2447742.68 310149.458 751.9162 0.67 TF-11-05 789.095
2447742.68 310149.458 751.63084 0.72 TF-11-05 789.095
2447742.68 310149.458 751.38812 0.74 TF-11-05 789.095
2447742.68 310149.458 751.14868 0.69 TF-11-05 789.095
2447742.68 310149.458 750.90268 0.66 TF-11-05 789.095
2447742.68 310149.458 750.65012 0.68 TF-11-05 789.095
2447742.68 310149.458 750.391 0.67 TF-11-05 789.095
2447742.68 310149.458 750.13844 0.69 TF-11-05 789.095
2447742.68 310149.458 749.87932 0.72 TF-11-05 789.095
2447742.68 310149.458 749.6202 0.73 TF-11-05 789.095
2447742.68 310149.458 749.36108 0.73 TF-11-05 789.095
2447742.68 310149.458 749.13476 0.66 TF-11-05 789.095
2447742.68 310149.458 748.87892 0.7 TF-11-05 789.095
2447742.68 310149.458 748.61652 0.66 TF-11-05 789.095
2447742.68 310149.458 748.3574 0.6 TF-11-05 789.095
2447742.68 310149.458 748.10484 0.66 TF-11-05 789.095
2447742.68 310149.458 748.09172 0.61 TF-11-05 789.095
2447706.787 310119.927 788.326 0.07 TF-11-06 788.326
2447706.787 310119.927 788.0964 0.54 TF-11-06 788.326
2447706.787 310119.927 787.79464 0.44 TF-11-06 788.326
2447706.787 310119.927 787.52896 0.43 TF-11-06 788.326
2447706.787 310119.927 787.2272 0.65 TF-11-06 788.326
2447706.787 310119.927 786.95496 0.06 TF-11-06 788.326
2447706.787 310119.927 786.686 0.4 TF-11-06 788.326
2447706.787 310119.927 786.3908 0.5 TF-11-06 788.326
2447706.787 310119.927 786.112 0.38 TF-11-06 788.326
2447706.787 310119.927 785.8824 0.42 TF-11-06 788.326
2447706.787 310119.927 785.60688 0.5 TF-11-06 788.326
2447706.787 310119.927 785.34448 0.22 TF-11-06 788.326
2447706.787 310119.927 785.03944 0.47 TF-11-06 788.326
2447706.787 310119.927 784.7672 0.33 TF-11-06 788.326
2447706.787 310119.927 784.4884 0.32 TF-11-06 788.326
2447706.787 310119.927 784.21288 0.35 TF-11-06 788.326
2447706.787 310119.927 783.90128 0.36 TF-11-06 788.326
2447706.787 310119.927 783.62248 0.28 TF-11-06 788.326
2447706.787 310119.927 783.34368 0.25 TF-11-06 788.326
2447706.787 310119.927 783.05832 0.2 TF-11-06 788.326
2447706.787 310119.927 782.75328 0.24 TF-11-06 788.326
2447706.787 310119.927 782.47776 0.21 TF-11-06 788.326
2447706.787 310119.927 782.16944 0.14 TF-11-06 788.326
2447706.787 310119.927 781.90048 0.16 TF-11-06 788.326
2447706.787 310119.927 781.62168 0.16 TF-11-06 788.326
2447706.787 310119.927 781.3068 0.18 TF-11-06 788.326
```

```
2447706.787 310119.927 781.03128 0.15 TF-11-06 788.326
2447706.787 310119.927 780.92304 0.05 TF-11-06 788.326
2447706.787 310119.927 780.64752 0.21 TF-11-06 788.326
2447706.787 310119.927 780.40152 0.12 TF-11-06 788.326
2447706.787 310119.927 780.12272 0.05 TF-11-06 788.326
2447706.787 310119.927 779.90296 0.01 TF-11-06 788.326
2447706.787 310119.927 779.59792 0.05 TF-11-06 788.326
2447706.787 310119.927 779.3224 0.22 TF-11-06 788.326
2447706.787 310119.927 779.0108 0.19 TF-11-06 788.326
2447706.787 310119.927 778.732 0.17 TF-11-06 788.326
2447706.787 310119.927 778.4204 0.06 TF-11-06 788.326
2447706.787 310119.927 778.13832 0.13 TF-11-06 788.326
2447706.787 310119.927 777.85624 0.13 TF-11-06 788.326
2447706.787 310119.927 777.53808 0.21 TF-11-06 788.326
2447706.787 310119.927 777.25272 0.08 TF-11-06 788.326
2447706.787 310119.927 776.93456 0.07 TF-11-06 788.326
2447706.787 310119.927 776.64592 0.13 TF-11-06 788.326
2447706.787 310119.927 776.36056 0.19 TF-11-06 788.326
2447706.787 310119.927 776.05224 0.22 TF-11-06 788.326
2447706.787 310119.927 775.80624 0.08 TF-11-06 788.326
2447706.787 310119.927 775.56024 0.11 TF-11-06 788.326
2447706.787 310119.927 775.28472 0.02 TF-11-06 788.326
2447706.787 310119.927 775.042 0.14 TF-11-06 788.326
2447706.787 310119.927 774.796 0.07 TF-11-06 788.326
2447706.787 310119.927 774.52376 0.07 TF-11-06 788.326
2447706.787 310119.927 774.27448 0.12 TF-11-06 788.326
2447706.787 310119.927 774.03176 0.02 TF-11-06 788.326
2447706.787 310119.927 773.78904 0.03 TF-11-06 788.326
2447706.787 310119.927 773.69392 0 TF-11-06 788.326
2447706.787 310119.927 773.63488 0.07 TF-11-06 788.326
2447706.787 310119.927 773.53976 0.05 TF-11-06 788.326
2447706.787 310119.927 773.29376 0.02 TF-11-06 788.326
2447706.787 310119.927 773.03464 0.06 TF-11-06 788.326
2447706.787 310119.927 772.79848 0.12 TF-11-06 788.326
2447706.787 310119.927 772.55248 0.07 TF-11-06 788.326
2447706.787 310119.927 772.4016 0 TF-11-06 788.326
2447706.787 310119.927 772.2212 0.05 TF-11-06 788.326
2447706.787 310119.927 772.16216 0.04 TF-11-06 788.326
2447706.787 310119.927 771.86696 0.08 TF-11-06 788.326
2447706.787 310119.927 771.8112 0.01 TF-11-06 788.326
2447706.787 310119.927 771.7128 0 TF-11-06 788.326
2447706.787 310119.927 771.50944 0.06 TF-11-06 788.326
2447706.787 310119.927 771.34216 0.03 TF-11-06 788.326
2447706.787 310119.927 771.07976 -0.02 TF-11-06 788.326
2447706.787 310119.927 770.77472 0.08 TF-11-06 788.326
2447706.787 310119.927 770.60416 0 TF-11-06 788.326
2447706.787 310119.927 770.50576 0.01 TF-11-06 788.326
2447706.787 310119.927 770.27616 0.01 TF-11-06 788.326
2447706.787 310119.927 770.02688 -0.03 TF-11-06 788.326
2447706.787 310119.927 769.72512 0.07 TF-11-06 788.326
2447706.787 310119.927 769.45944 0.08 TF-11-06 788.326
2447706.787 310119.927 769.1872 0.11 TF-11-06 788.326
2447706.787 310119.927 768.88872 0.01 TF-11-06 788.326
2447706.787 310119.927 768.61648 -0.1 TF-11-06 788.326
2447706.787 310119.927 768.34752 -0.04 TF-11-06 788.326
2447706.787 310119.927 768.04248 -0.02 TF-11-06 788.326
2447706.787 310119.927 767.77024 0.18 TF-11-06 788.326
2447706.787 310119.927 767.498 0.08 TF-11-06 788.326
2447706.787 310119.927 767.22904 -0.1 TF-11-06 788.326
2447706.787 310119.927 766.93056 -0.2 TF-11-06 788.326
2447706.787 310119.927 766.65504 -0.3 TF-11-06 788.326
2447706.787 310119.927 766.3828 0.08 TF-11-06 788.326
2447706.787 310119.927 766.12696 0.16 TF-11-06 788.326
2447706.787 310119.927 765.858 0.16 TF-11-06 788.326
2447706.787 310119.927 765.59232 0.23 TF-11-06 788.326
2447706.787 310119.927 765.29056 0.44 TF-11-06 788.326
2447706.787 310119.927 765.01504 0.41 TF-11-06 788.326
2447706.787 310119.927 764.7428 0.29 TF-11-06 788.326
2447706.787 310119.927 764.47384 0.14 TF-11-06 788.326
2447706.787 310119.927 764.19832 0.32 TF-11-06 788.326
2447706.787 310119.927 763.92936 0.11 TF-11-06 788.326
2447706.787 310119.927 763.62432 0.26 TF-11-06 788.326
2447706.787 310119.927 763.35208 0.13 TF-11-06 788.326
2447706.787 310119.927 763.1028 0.22 TF-11-06 788.326
2447706.787 310119.927 762.84368 0.32 TF-11-06 788.326
2447706.787 310119.927 762.57144 0.3 TF-11-06 788.326
2447706.787 310119.927 762.29592 0.22 TF-11-06 788.326
2447706.787 310119.927 762.02696 0.25 TF-11-06 788.326
2447706.787 310119.927 761.758 0.26 TF-11-06 788.326
2447706.787 310119.927 761.48904 0.18 TF-11-06 788.326
2447706.787 310119.927 761.22008 0.16 TF-11-06 788.326
2447706.787 310119.927 760.91832 0.1 TF-11-06 788.326
2447706.787 310119.927 760.64608 0.2 TF-11-06 788.326
2447706.787 310119.927 760.37712 0.22 TF-11-06 788.326
2447706.787 310119.927 760.12784 0.18 TF-11-06 788.326
2447706.787 310119.927 759.84576 0.32 TF-11-06 788.326
2447706.787 310119.927 759.5768 0.29 TF-11-06 788.326
2447706.787 310119.927 759.26848 0.28 TF-11-06 788.326
2447706.787 310119.927 758.98312 0.29 TF-11-06 788.326
2447706.787 310119.927 758.6748 0.26 TF-11-06 788.326
2447706.787 310119.927 758.40256 0.24 TF-11-06 788.326
2447706.787 310119.927 758.15656 0.31 TF-11-06 788.326
2447706.787 310119.927 757.91712 0.29 TF-11-06 788.326
2447706.787 310119.927 757.658 0.24 TF-11-06 788.326
2447706.787 310119.927 757.42184 0.26 TF-11-06 788.326
2447706.787 310119.927 757.1168 0.27 TF-11-06 788.326
2447706.787 310119.927 756.88064 0.2 TF-11-06 788.326
2447706.787 310119.927 756.70352 0.22 TF-11-06 788.326
2447758.734 310103.019 787.952 0.09 TF-11-07 787.952
2447758.734 310103.019 787.6568 0.95 TF-11-07 787.952
2447758.734 310103.019 787.40752 0.47 TF-11-07 787.952
2447758.734 310103.019 787.1648 0.4 TF-11-07 787.952
```

```
2447758.734 310103.019 786.9188 1.41 TF-11-07 787.952
2447758.734 310103.019 786.6728 1.42 TF-11-07 787.952
2447758.734 310103.019 786.4268 1.17 TF-11-07 787.952
2447758.734 310103.019 786.15128 1.06 TF-11-07 787.952
2447758.734 310103.019 785.87248 0.5 TF-11-07 787.952
2447758.734 310103.019 785.63632 1.08 TF-11-07 787.952
2447758.734 310103.019 785.40016 1.22 TF-11-07 787.952
2447758.734 310103.019 785.16072 1.53 TF-11-07 787.952
2447758.734 310103.019 784.92128 1.02 TF-11-07 787.952
2447758.734 310103.019 784.68184 0.41 TF-11-07 787.952
2447758.734 310103.019 784.41288 1.02 TF-11-07 787.952
2447758.734 310103.019 784.17344 0.68 TF-11-07 787.952
2447758.734 310103.019 783.934 0.4 TF-11-07 787.952
2447758.734 310103.019 783.69456 0.33 TF-11-07 787.952
2447758.734 310103.019 783.45512 0.27 TF-11-07 787.952
2447758.734 310103.019 783.21568 0.7 TF-11-07 787.952
2447758.734 310103.019 782.96968 1.15 TF-11-07 787.952
2447758.734 310103.019 782.66464 0.97 TF-11-07 787.952
2447758.734 310103.019 782.4252 1.81 TF-11-07 787.952
2447758.734 310103.019 782.1792 1.42 TF-11-07 787.952
2447758.734 310103.019 781.9332 2.27 TF-11-07 787.952
2447758.734 310103.019 781.65768 1.22 TF-11-07 787.952
2447758.734 310103.019 781.4084 3.85 TF-11-07 787.952
2447758.734 310103.019 781.15912 5.01 TF-11-07 787.952
2447758.734 310103.019 780.90656 0.15 TF-11-07 787.952
2447758.734 310103.019 780.66056 0.08 TF-11-07 787.952
2447758.734 310103.019 780.408 0.11 TF-11-07 787.952
2447758.734 310103.019 780.12592 0 TF-11-07 787.952
2447758.734 310103.019 780.06032 0.05 TF-11-07 787.952
2447758.734 310103.019 779.78152 0.19 TF-11-07 787.952
2447758.734 310103.019 779.5552 0.3 TF-11-07 787.952
2447758.734 310103.019 779.27312 0.22 TF-11-07 787.952
2447758.734 310103.019 779.02056 0.32 TF-11-07 787.952
2447758.734 310103.019 778.768 0.16 TF-11-07 787.952
2447758.734 310103.019 778.51216 4.98 TF-11-07 787.952
2447758.734 310103.019 778.25304 3.7 TF-11-07 787.952
2447758.734 310103.019 777.9644 1.22 TF-11-07 787.952
2447758.734 310103.019 777.70856 1.76 TF-11-07 787.952
2447758.734 310103.019 777.45272 1.88 TF-11-07 787.952
2447758.734 310103.019 777.1936 7.45 TF-11-07 787.952
2447758.734 310103.019 776.93776 6.19 TF-11-07 787.952
2447758.734 310103.019 776.67864 4.85 TF-11-07 787.952
2447758.734 310103.019 776.41952 4.12 TF-11-07 787.952
2447758.734 310103.019 776.16368 2.89 TF-11-07 787.952
2447758.734 310103.019 775.92096 4.86 TF-11-07 787.952
2447758.734 310103.019 775.67168 1.78 TF-11-07 787.952
2447758.734 310103.019 775.39288 0.76 TF-11-07 787.952
2447758.734 310103.019 775.14032 0.38 TF-11-07 787.952
2447758.734 310103.019 774.88448 0.07 TF-11-07 787.952
2447758.734 310103.019 774.78936 0.04 TF-11-07 787.952
2447758.734 310103.019 774.5368 0.26 TF-11-07 787.952
2447758.734 310103.019 774.28096 0.31 TF-11-07 787.952
2447758.734 310103.019 774.02512 0.17 TF-11-07 787.952
2447758.734 310103.019 773.76928 0.16 TF-11-07 787.952
2447758.734 310103.019 773.48064 0.12 TF-11-07 787.952
2447758.734 310103.019 773.22808 0.15 TF-11-07 787.952
2447758.734 310103.019 772.98208 0.1 TF-11-07 787.952
2447758.734 310103.019 772.73936 0.17 TF-11-07 787.952
2447758.734 310103.019 772.54912 0 TF-11-07 787.952
2447758.734 310103.019 772.49008 0.05 TF-11-07 787.952
2447758.734 310103.019 772.20472 0.19 TF-11-07 787.952
2447758.734 310103.019 771.95216 0.28 TF-11-07 787.952
2447758.734 310103.019 771.6996 0.25 TF-11-07 787.952
2447758.734 310103.019 771.44376 0.31 TF-11-07 787.952
2447758.734 310103.019 771.18792 0.2 TF-11-07 787.952
2447758.734 310103.019 770.90256 0.2 TF-11-07 787.952
2447758.734 310103.019 770.64672 0.18 TF-11-07 787.952
2447758.734 310103.019 770.39416 0.18 TF-11-07 787.952
2447758.734 310103.019 770.1416 0.2 TF-11-07 787.952
2447758.734 310103.019 769.88248 0.33 TF-11-07 787.952
2447758.734 310103.019 769.6168 0.24 TF-11-07 787.952
2447758.734 310103.019 769.36424 0.21 TF-11-07 787.952
2447758.734 310103.019 769.11168 0.15 TF-11-07 787.952
2447758.734 310103.019 768.85256 0.12 TF-11-07 787.952
2447758.734 310103.019 768.59672 0.25 TF-11-07 787.952
2447758.734 310103.019 768.34088 0.24 TF-11-07 787.952
2447758.734 310103.019 768.04896 0.19 TF-11-07 787.952
2447758.734 310103.019 767.78984 0.27 TF-11-07 787.952
2447758.734 310103.019 767.53072 0.32 TF-11-07 787.952
2447758.734 310103.019 767.2716 0.22 TF-11-07 787.952
2447758.734 310103.019 766.98296 0.14 TF-11-07 787.952
2447758.734 310103.019 766.72384 0.33 TF-11-07 787.952
2447758.734 310103.019 766.48768 0.21 TF-11-07 787.952
2447758.734 310103.019 766.20232 0.15 TF-11-07 787.952
2447758.734 310103.019 765.94648 0.29 TF-11-07 787.952
2447758.734 310103.019 765.68736 0.33 TF-11-07 787.952
2447758.734 310103.019 765.42496 0.3 TF-11-07 787.952
2447758.734 310103.019 765.13632 0.25 TF-11-07 787.952
2447758.734 310103.019 764.90672 0.24 TF-11-07 787.952
2447758.734 310103.019 764.61152 0.23 TF-11-07 787.952
2447758.734 310103.019 764.34912 0.27 TF-11-07 787.952
2447758.734 310103.019 764.09 0.32 TF-11-07 787.952
2447758.734 310103.019 763.8276 0.26 TF-11-07 787.952
2447758.734 310103.019 763.56848 0.28 TF-11-07 787.952
2447758.734 310103.019 763.27 0.24 TF-11-07 787.952
2447758.734 310103.019 763.01744 0.33 TF-11-07 787.952
2447758.734 310103.019 762.76488 0.28 TF-11-07 787.952
2447758.734 310103.019 762.50904 0.15 TF-11-07 787.952
2447758.734 310103.019 762.2532 0.31 TF-11-07 787.952
2447758.734 310103.019 761.96784 0.24 TF-11-07 787.952
2447758.734 310103.019 761.712 0.19 TF-11-07 787.952
2447758.734 310103.019 761.4496 0.17 TF-11-07 787.952
```

```
2447758.734 310103.019 761.19704 0.2 TF-11-07 787.952
2447758.734 310103.019 760.9412 0.19 TF-11-07 787.952
2447758.734 310103.019 760.68208 0.17 TF-11-07 787.952
2447758.734 310103.019 760.39344 0.17 TF-11-07 787.952
2447758.734 310103.019 760.15728 0.17 TF-11-07 787.952
2447758.734 310103.019 759.90144 0.15 TF-11-07 787.952
2447758.734 310103.019 759.61608 0.21 TF-11-07 787.952
2447758.734 310103.019 759.35696 0.28 TF-11-07 787.952
2447758.734 310103.019 759.09456 0.26 TF-11-07 787.952
2447758.734 310103.019 758.83872 0.27 TF-11-07 787.952
2447758.734 310103.019 758.57632 0.26 TF-11-07 787.952
2447758.734 310103.019 758.31392 0.29 TF-11-07 787.952
2447758.734 310103.019 758.04824 0.12 TF-11-07 787.952
2447758.734 310103.019 757.76288 0.27 TF-11-07 787.952
2447758.734 310103.019 757.50048 0.07 TF-11-07 787.952
2447758.734 310103.019 757.2348 0.21 TF-11-07 787.952
2447758.734 310103.019 756.97896 0.35 TF-11-07 787.952
2447758.734 310103.019 756.67064 0.26 TF-11-07 787.952
2447758.734 310103.019 756.4148 0.34 TF-11-07 787.952
2447758.734 310103.019 756.15568 0.31 TF-11-07 787.952
2447758.734 310103.019 755.86376 0.28 TF-11-07 787.952
2447758.734 310103.019 755.60136 0.29 TF-11-07 787.952
2447758.734 310103.019 755.34224 0.32 TF-11-07 787.952
2447758.734 310103.019 755.07984 0.36 TF-11-07 787.952
2447758.734 310103.019 754.82728 0.22 TF-11-07 787.952
2447758.734 310103.019 754.53864 0.13 TF-11-07 787.952
2447758.734 310103.019 754.46976 0.24 TF-11-07 787.952
2447758.734 310103.019 754.37792 0 TF-11-07 787.952
2447758.734 310103.019 754.27952 0.07 TF-11-07 787.952
2447758.734 310103.019 754.03024 0.1 TF-11-07 787.952
2447758.734 310103.019 753.77112 0.06 TF-11-07 787.952
2447758.734 310103.019 753.51856 0.11 TF-11-07 787.952
2447758.734 310103.019 753.23648 0.13 TF-11-07 787.952
2447758.734 310103.019 753.01344 0.12 TF-11-07 787.952
2447758.734 310103.019 752.71824 0.26 TF-11-07 787.952
2447758.734 310103.019 752.4624 0.12 TF-11-07 787.952
2447758.734 310103.019 752.20328 0.09 TF-11-07 787.952
2447758.734 310103.019 751.94088 0.23 TF-11-07 787.952
2447758.734 310103.019 751.6752 0.09 TF-11-07 787.952
2447758.734 310103.019 751.41608 0.23 TF-11-07 787.952
2447758.734 310103.019 751.15696 0.78 TF-11-07 787.952
2447758.734 310103.019 750.89456 0.13 TF-11-07 787.952
2447758.734 310103.019 750.63216 0.13 TF-11-07 787.952
2447758.734 310103.019 750.34352 0.21 TF-11-07 787.952
2447758.734 310103.019 750.09752 0.14 TF-11-07 787.952
2447758.734 310103.019 749.8384 0.16 TF-11-07 787.952
2447758.734 310103.019 749.57928 0.14 TF-11-07 787.952
2447758.734 310103.019 749.31032 0.12 TF-11-07 787.952
2447758.734 310103.019 749.02496 0.19 TF-11-07 787.952
2447758.734 310103.019 748.76256 0.15 TF-11-07 787.952
2447758.734 310103.019 748.50344 0.15 TF-11-07 787.952
2447758.734 310103.019 748.24104 0.18 TF-11-07 787.952
2447758.734 310103.019 747.97864 0.18 TF-11-07 787.952
2447758.734 310103.019 747.71624 0.14 TF-11-07 787.952
2447758.734 310103.019 747.45712 0.14 TF-11-07 787.952
2447758.734 310103.019 747.27672 0.25 TF-11-07 787.952
2447659.502 310100.698 787.784 0.49 TF-11-08 787.784
2447659.502 310100.698 787.5216 1.1 TF-11-08 787.784
2447659.502 310100.698 787.21328 0.96 TF-11-08 787.784
2447659.502 310100.698 786.95416 0.81 TF-11-08 787.784
2447659.502 310100.698 786.68848 0.78 TF-11-08 787.784
2447659.502 310100.698 786.4392 0.89 TF-11-08 787.784
2447659.502 310100.698 786.18992 0.87 TF-11-08 787.784
2447659.502 310100.698 785.95048 0.74 TF-11-08 787.784
2447659.502 310100.698 785.69136 0.8 TF-11-08 787.784
2447659.502 310100.698 785.4224 0.81 TF-11-08 787.784
2447659.502 310100.698 785.16 0.85 TF-11-08 787.784
2447659.502 310100.698 784.89432 0.6 TF-11-08 787.784
2447659.502 310100.698 784.59256 0.7 TF-11-08 787.784
2447659.502 310100.698 784.46792 0.5 TF-11-08 787.784
2447726.446 310072.929 788.284 0.36 TF-11-09 788.284
2447726.446 310072.929 787.97568 0.92 TF-11-09 788.284
2447726.446 310072.929 787.70016 0.85 TF-11-09 788.284
2447726.446 310072.929 787.42464 0.75 TF-11-09 788.284
2447726.446 310072.929 787.14912 0.61 TF-11-09 788.284
2447726.446 310072.929 786.8736 0.75 TF-11-09 788.284
2447726.446 310072.929 786.59808 0.54 TF-11-09 788.284
2447726.446 310072.929 786.36192 5.56 TF-11-09 788.284
2447726.446 310072.929 786.09624 0.88 TF-11-09 788.284
2447726.446 310072.929 785.82728 7.21 TF-11-09 788.284
2447726.446 310072.929 785.55832 16.6 TF-11-09 788.284
2447726.446 310072.929 785.24344 12.29 TF-11-09 788.284
2447726.446 310072.929 784.97448 12.31 TF-11-09 788.284
2447726.446 310072.929 784.70224 18.19 TF-11-09 788.284
2447726.446 310072.929 784.42344 35.82 TF-11-09 788.284
2447726.446 310072.929 784.14792 27.7 TF-11-09 788.284
2447726.446 310072.929 783.83632 29.66 TF-11-09 788.284
2447726.446 310072.929 783.59032 29.39 TF-11-09 788.284
2447726.446 310072.929 783.28528 19.44 TF-11-09 788.284
2447726.446 310072.929 783.02944 16.56 TF-11-09 788.284
2447726.446 310072.929 782.75392 12.93 TF-11-09 788.284
2447726.446 310072.929 782.4784 9.28 TF-11-09 788.284
2447726.446 310072.929 782.15696 6.97 TF-11-09 788.284
2447726.446 310072.929 781.86832 1.11 TF-11-09 788.284
2447726.446 310072.929 781.58952 1.57 TF-11-09 788.284
2447726.446 310072.929 781.52064 0.1 TF-11-09 788.284
2447726.446 310072.929 781.1992 0.88 TF-11-09 788.284
2447726.446 310072.929 780.91712 1.29 TF-11-09 788.284
2447726.446 310072.929 780.63176 0.53 TF-11-09 788.284
2447726.446 310072.929 780.34312 0.57 TF-11-09 788.284
2447726.446 310072.929 780.06104 0.43 TF-11-09 788.284
2447726.446 310072.929 779.80192 1.65 TF-11-09 788.284
```

2447726.446 310072.929 779.5264 1.95 TF-11-09 788.284
2447726.446 310072.929 779.24104 3.15 TF-11-09 788.284
2447726.446 310072.929 778.91304 1.69 TF-11-09 788.284
2447726.446 310072.929 778.62768 1.64 TF-11-09 788.284
2447726.446 310072.929 778.34232 3.12 TF-11-09 788.284
2447726.446 310072.929 778.05368 2.6 TF-11-09 788.284
2447726.446 310072.929 777.7388 7.07 TF-11-09 788.284
2447726.446 310072.929 777.44032 3.74 TF-11-09 788.284
2447726.446 310072.929 777.15168 1.64 TF-11-09 788.284
2447726.446 310072.929 776.86304 2.87 TF-11-09 788.284
2447726.446 310072.929 776.6236 1.75 TF-11-09 788.284
2447726.446 310072.929 776.34152 0.96 TF-11-09 788.284
2447726.446 310072.929 776.05288 1.82 TF-11-09 788.284
2447726.446 310072.929 775.72816 2.51 TF-11-09 788.284
2447726.446 310072.929 775.42968 2.07 TF-11-09 788.284
2447726.446 310072.929 775.14104 2.42 TF-11-09 788.284
2447726.446 310072.929 774.84912 5.25 TF-11-09 788.284
2447726.446 310072.929 774.6228 6.65 TF-11-09 788.284
2447726.446 310072.929 774.33416 6.43 TF-11-09 788.284
2447726.446 310072.929 774.03896 2.36 TF-11-09 788.284
2447726.446 310072.929 773.74376 1.48 TF-11-09 788.284
2447726.446 310072.929 773.45512 0.63 TF-11-09 788.284
2447726.446 310072.929 773.13368 0.24 TF-11-09 788.284
2447726.446 310072.929 772.84176 0.14 TF-11-09 788.284
2447726.446 310072.929 772.52032 0.33 TF-11-09 788.284
2447726.446 310072.929 772.23496 0.18 TF-11-09 788.284
2447726.446 310072.929 771.95616 0.28 TF-11-09 788.284
2447726.446 310072.929 771.6708 0.26 TF-11-09 788.284
2447726.446 310072.929 771.34608 0.44 TF-11-09 788.284
2447726.446 310072.929 771.06728 0.43 TF-11-09 788.284
2447726.446 310072.929 770.818 0.42 TF-11-09 788.284
2447726.446 310072.929 770.50312 0.29 TF-11-09 788.284
2447726.446 310072.929 770.21776 0.25 TF-11-09 788.284
2447726.446 310072.929 769.99144 0.22 TF-11-09 788.284
2447726.446 310072.929 769.7192 0.22 TF-11-09 788.284
2447726.446 310072.929 769.61752 0.07 TF-11-09 788.284
2447726.446 310072.929 769.342 0.13 TF-11-09 788.284
2447726.446 310072.929 769.0304 0.12 TF-11-09 788.284
2447726.446 310072.929 768.75816 0.22 TF-11-09 788.284
2447726.446 310072.929 768.47936 0.28 TF-11-09 788.284
2447726.446 310072.929 768.19728 0.15 TF-11-09 788.284
2447726.446 310072.929 767.87584 0.2 TF-11-09 788.284
2447726.446 310072.929 767.5872 0.19 TF-11-09 788.284
2447726.446 310072.929 767.29856 0.09 TF-11-09 788.284
2447726.446 310072.929 767.00664 0.18 TF-11-09 788.284
2447726.446 310072.929 766.718 0.08 TF-11-09 788.284
2447726.446 310072.929 766.42936 0.26 TF-11-09 788.284
2447726.446 310072.929 766.1112 0.27 TF-11-09 788.284
2447726.446 310072.929 765.81928 0.47 TF-11-09 788.284
2447726.446 310072.929 765.53392 0.43 TF-11-09 788.284
2447726.446 310072.929 765.25184 0.37 TF-11-09 788.284
2447726.446 310072.929 764.9632 0.4 TF-11-09 788.284
2447726.446 310072.929 764.6352 0.3 TF-11-09 788.284
2447726.446 310072.929 764.34656 0.37 TF-11-09 788.284
2447726.446 310072.929 764.05464 0.43 TF-11-09 788.284
2447726.446 310072.929 763.766 0.33 TF-11-09 788.284
2447726.446 310072.929 763.53968 0.17 TF-11-09 788.284
2447726.446 310072.929 763.36912 0.02 TF-11-09 788.284
2447726.446 310072.929 763.2576 0 TF-11-09 788.284
2447726.446 310072.929 763.18216 0.14 TF-11-09 788.284
2447726.446 310072.929 762.8968 0.2 TF-11-09 788.284
2447726.446 310072.929 762.67376 0.13 TF-11-09 788.284
2447726.446 310072.929 762.38512 0.17 TF-11-09 788.284
2447726.446 310072.929 762.09648 0.08 TF-11-09 788.284
2447726.446 310072.929 761.80128 0.1 TF-11-09 788.284
2447726.446 310072.929 761.50608 -0.05 TF-11-09 788.284
2447726.446 310072.929 761.21744 0.01 TF-11-09 788.284
2447726.446 310072.929 760.88616 0.15 TF-11-09 788.284
2447726.446 310072.929 760.6008 0.11 TF-11-09 788.284
2447726.446 310072.929 760.36136 0.03 TF-11-09 788.284
2447726.446 310072.929 760.07272 0.07 TF-11-09 788.284
2447726.446 310072.929 759.77752 0.17 TF-11-09 788.284
2447726.446 310072.929 759.48888 0.14 TF-11-09 788.284
2447726.446 310072.929 759.19368 0.05 TF-11-09 788.284
2447726.446 310072.929 758.90176 -0.07 TF-11-09 788.284
2447726.446 310072.929 758.60984 0.17 TF-11-09 788.284
2447726.446 310072.929 758.38352 0.15 TF-11-09 788.284
2447726.446 310072.929 758.09488 0.17 TF-11-09 788.284
2447726.446 310072.929 757.80296 0.17 TF-11-09 788.284
2447726.446 310072.929 757.52416 0.19 TF-11-09 788.284
2447726.446 310072.929 757.28144 0.01 TF-11-09 788.284
2447726.446 310072.929 757.01248 0.15 TF-11-09 788.284
2447726.446 310072.929 756.7468 0.17 TF-11-09 788.284
2447726.446 310072.929 756.71728 0.23 TF-11-09 788.284
2447777.953 310078.34 788.054 0.49 TF-11-10 788.054
2447777.953 310078.34 787.76208 7.64 TF-11-10 788.054
2447777.953 310078.34 787.50296 5.78 TF-11-10 788.054
2447777.953 310078.34 787.24384 1.28 TF-11-10 788.054
2447777.953 310078.34 786.95192 1.87 TF-11-10 788.054
2447777.953 310078.34 786.68952 6.09 TF-11-10 788.054
2447777.953 310078.34 786.44024 8.45 TF-11-10 788.054
2447777.953 310078.34 786.19424 10.71 TF-11-10 788.054
2447777.953 310078.34 785.90232 10.38 TF-11-10 788.054
2447777.953 310078.34 785.65632 10.19 TF-11-10 788.054
2447777.953 310078.34 785.37752 11.42 TF-11-10 788.054
2447777.953 310078.34 785.12824 12.2 TF-11-10 788.054
2447777.953 310078.34 784.86584 12.5 TF-11-10 788.054
2447777.953 310078.34 784.59688 12.77 TF-11-10 788.054
2447777.953 310078.34 784.32136 8.3 TF-11-10 788.054
2447777.953 310078.34 784.04912 4.6 TF-11-10 788.054
2447777.953 310078.34 783.7408 4.97 TF-11-10 788.054
2447777.953 310078.34 783.46856 5.33 TF-11-10 788.054

```
2447777.953 310078.34 783.21928 5.02 TF-11-10 788.054
2447777.953 310078.34 782.97984 4.19 TF-11-10 788.054
2447777.953 310078.34 782.72728 4.06 TF-11-10 788.054
2447777.953 310078.34 782.47144 1.82 TF-11-10 788.054
2447777.953 310078.34 782.16968 1.18 TF-11-10 788.054
2447777.953 310078.34 781.90072 1.67 TF-11-10 788.054
2447777.953 310078.34 781.63504 0.98 TF-11-10 788.054
2447777.953 310078.34 781.36608 0.88 TF-11-10 788.054
2447777.953 310078.34 781.06104 1.01 TF-11-10 788.054
2447777.953 310078.34 780.78224 1.81 TF-11-10 788.054
2447777.953 310078.34 780.51 2.69 TF-11-10 788.054
2447777.953 310078.34 780.23448 0.38 TF-11-10 788.054
2447777.953 310078.34 779.97536 1.78 TF-11-10 788.054
2447777.953 310078.34 779.71296 1.84 TF-11-10 788.054
2447777.953 310078.34 779.444 4.66 TF-11-10 788.054
2447777.953 310078.34 779.16192 1.72 TF-11-10 788.054
2447777.953 310078.34 778.87656 3.7 TF-11-10 788.054
2447777.953 310078.34 778.56168 1.31 TF-11-10 788.054
2447777.953 310078.34 778.30912 1.16 TF-11-10 788.054
2447777.953 310078.34 778.02048 3 TF-11-10 788.054
2447777.953 310078.34 777.69904 2.68 TF-11-10 788.054
2447777.953 310078.34 777.41368 2.69 TF-11-10 788.054
2447777.953 310078.34 777.12504 1.9 TF-11-10 788.054
2447777.953 310078.34 776.88888 1.3 TF-11-10 788.054
2447777.953 310078.34 776.64944 1.04 TF-11-10 788.054
2447777.953 310078.34 776.39688 1.52 TF-11-10 788.054
2447777.953 310078.34 776.1312 1.25 TF-11-10 788.054
2447777.953 310078.34 775.86224 1.19 TF-11-10 788.054
2447777.953 310078.34 775.58672 0.95 TF-11-10 788.054
2447777.953 310078.34 775.30464 1.03 TF-11-10 788.054
2447777.953 310078.34 774.97992 0.87 TF-11-10 788.054
2447777.953 310078.34 774.69784 0.21 TF-11-10 788.054
2447777.953 310078.34 774.4092 0.38 TF-11-10 788.054
2447777.953 310078.34 774.08448 0.34 TF-11-10 788.054
2447777.953 310078.34 773.79912 0.16 TF-11-10 788.054
2447777.953 310078.34 773.51376 0.15 TF-11-10 788.054
2447777.953 310078.34 773.25136 0.14 TF-11-10 788.054
2447777.953 310078.34 772.97584 0.23 TF-11-10 788.054
2447777.953 310078.34 772.68392 0.27 TF-11-10 788.054
2447777.953 310078.34 772.40184 0.27 TF-11-10 788.054
2447777.953 310078.34 772.07384 0.49 TF-11-10 788.054
2447777.953 310078.34 771.7852 0.45 TF-11-10 788.054
2447777.953 310078.34 771.49 0.54 TF-11-10 788.054
2447777.953 310078.34 771.20136 0.47 TF-11-10 788.054
2447777.953 310078.34 770.90944 0.37 TF-11-10 788.054
2447777.953 310078.34 770.61424 0.33 TF-11-10 788.054
2447777.953 310078.34 770.31576 0.33 TF-11-10 788.054
2447777.953 310078.34 770.03696 0.38 TF-11-10 788.054
2447777.953 310078.34 769.74832 0.33 TF-11-10 788.054
2447777.953 310078.34 769.4564 0.45 TF-11-10 788.054
2447777.953 310078.34 769.1612 0.34 TF-11-10 788.054
2447777.953 310078.34 768.86928 0.4 TF-11-10 788.054
2447777.953 310078.34 768.57736 0.54 TF-11-10 788.054
2447777.953 310078.34 768.28216 0.47 TF-11-10 788.054
2447777.953 310078.34 767.98696 0.51 TF-11-10 788.054
2447777.953 310078.34 767.76392 0.52 TF-11-10 788.054
2447777.953 310078.34 767.46872 0.51 TF-11-10 788.054
2447777.953 310078.34 767.22928 0.54 TF-11-10 788.054
2447777.953 310078.34 766.95048 0.64 TF-11-10 788.054
2447777.953 310078.34 766.6684 0.56 TF-11-10 788.054
2447777.953 310078.34 766.37648 0.61 TF-11-10 788.054
2447777.953 310078.34 766.08128 0.58 TF-11-10 788.054
2447777.953 310078.34 765.79264 0.58 TF-11-10 788.054
2447777.953 310078.34 765.5696 0.65 TF-11-10 788.054
2447777.953 310078.34 765.2744 0.62 TF-11-10 788.054
2447777.953 310078.34 764.97592 0.59 TF-11-10 788.054
2447777.953 310078.34 764.68072 0.62 TF-11-10 788.054
2447777.953 310078.34 764.3888 0.57 TF-11-10 788.054
2447777.953 310078.34 764.08704 0.53 TF-11-10 788.054
2447777.953 310078.34 763.82136 0.62 TF-11-10 788.054
2447777.953 310078.34 763.49992 0.61 TF-11-10 788.054
2447777.953 310078.34 763.20472 0.59 TF-11-10 788.054
2447777.953 310078.34 762.90952 0.62 TF-11-10 788.054
2447777.953 310078.34 762.61432 0.63 TF-11-10 788.054
2447777.953 310078.34 762.31912 0.64 TF-11-10 788.054
2447777.953 310078.34 762.02064 0.66 TF-11-10 788.054
2447777.953 310078.34 761.72544 0.57 TF-11-10 788.054
2447777.953 310078.34 761.42696 0.54 TF-11-10 788.054
2447777.953 310078.34 761.20064 0.49 TF-11-10 788.054
2447777.953 310078.34 760.90216 0.5 TF-11-10 788.054
2447777.953 310078.34 760.66928 0.47 TF-11-10 788.054
2447777.953 310078.34 760.39376 0.38 TF-11-10 788.054
2447777.953 310078.34 760.10512 0.4 TF-11-10 788.054
2447777.953 310078.34 759.8132 0.42 TF-11-10 788.054
2447777.953 310078.34 759.59016 0.42 TF-11-10 788.054
2447777.953 310078.34 759.29496 0.42 TF-11-10 788.054
2447777.953 310078.34 758.99648 0.46 TF-11-10 788.054
2447777.953 310078.34 758.698 0.35 TF-11-10 788.054
2447777.953 310078.34 758.39952 0.44 TF-11-10 788.054
2447777.953 310078.34 758.09776 0.38 TF-11-10 788.054
2447777.953 310078.34 757.80256 0.38 TF-11-10 788.054
2447777.953 310078.34 757.55656 0.4 TF-11-10 788.054
2447777.953 310078.34 757.27776 0.46 TF-11-10 788.054
2447777.953 310078.34 756.98912 0.44 TF-11-10 788.054
2447777.953 310078.34 756.66112 0.43 TF-11-10 788.054
2447777.953 310078.34 756.36592 0.41 TF-11-10 788.054
2447777.953 310078.34 756.06416 0.55 TF-11-10 788.054
2447777.953 310078.34 755.76568 0.46 TF-11-10 788.054
2447777.953 310078.34 755.54264 0.38 TF-11-10 788.054
2447777.953 310078.34 755.24088 0.34 TF-11-10 788.054
2447777.953 310078.34 754.93584 0.37 TF-11-10 788.054
2447777.953 310078.34 754.63736 0.34 TF-11-10 788.054
```

```
2447777.953 310078.34 754.34216 0.39 TF-11-10 788.054
2447777.953 310078.34 754.0568 0.39 TF-11-10 788.054
2447777.953 310078.34 753.83376 0.37 TF-11-10 788.054
2447777.953 310078.34 753.53856 0.4 TF-11-10 788.054
2447777.953 310078.34 753.24336 0.44 TF-11-10 788.054
2447777.953 310078.34 752.94816 0.43 TF-11-10 788.054
2447777.953 310078.34 752.64312 0.38 TF-11-10 788.054
2447777.953 310078.34 752.34136 0.4 TF-11-10 788.054
2447777.953 310078.34 752.0396 0.44 TF-11-10 788.054
2447777.953 310078.34 751.73456 0.36 TF-11-10 788.054
2447777.953 310078.34 751.4328 0.29 TF-11-10 788.054
2447777.953 310078.34 751.19008 0.31 TF-11-10 788.054
2447777.953 310078.34 750.88504 0.35 TF-11-10 788.054
2447777.953 310078.34 750.60624 0.41 TF-11-10 788.054
2447777.953 310078.34 750.32088 0.31 TF-11-10 788.054
2447777.953 310078.34 750.02896 0.31 TF-11-10 788.054
2447777.953 310078.34 749.7272 0.31 TF-11-10 788.054
2447777.953 310078.34 749.50088 0.32 TF-11-10 788.054
2447777.953 310078.34 749.19584 0.39 TF-11-10 788.054
2447777.953 310078.34 748.89408 0.35 TF-11-10 788.054
2447777.953 310078.34 748.59232 0.44 TF-11-10 788.054
2447777.953 310078.34 748.36272 0.36 TF-11-10 788.054
2447777.953 310078.34 748.0708 0.38 TF-11-10 788.054
2447777.953 310078.34 747.79856 0.39 TF-11-10 788.054
2447777.953 310078.34 747.73296 0.35 TF-11-10 788.054
2447321.025 310672.495 808.299 0.6 WIL-01 808.299
2447321.025 310672.495 808.26292 0.17 WIL-01 808.299
2447321.025 310672.495 808.22028 0.15 WIL-01 808.299
2447321.025 310672.495 808.15468 0.09 WIL-01 808.299
2447321.025 310672.495 808.02348 0.05 WIL-01 808.299
2447321.025 310672.495 808.01364 0 WIL-01 808.299
2447321.025 310672.495 807.8398 0.03 WIL-01 808.299
2447243.61 310590.84 803.208 0.88 WIL-03 803.208
2447243.61 310590.84 802.94888 7.54 WIL-03 803.208
2447243.61 310590.84 802.72584 4.27 WIL-03 803.208
2447243.61 310590.84 802.46672 0.94 WIL-03 803.208
2447243.61 310590.84 802.24368 0.59 WIL-03 803.208
2447243.61 310590.84 801.978 0.64 WIL-03 803.208
2447243.61 310590.84 801.72216 0.59 WIL-03 803.208
2447243.61 310590.84 801.44664 0.75 WIL-03 803.208
2447243.61 310590.84 801.33184 0.73 WIL-03 803.208
2447243.61 310590.84 803.208 0.52 WIL-03A 803.208
2447243.61 310590.84 802.97184 0.63 WIL-03A 803.208
2447243.61 310590.84 802.72912 0.51 WIL-03A 803.208
2447243.61 310590.84 802.49952 0.49 WIL-03A 803.208
2447243.61 310590.84 802.25024 0.47 WIL-03A 803.208
2447243.61 310590.84 801.98456 0.58 WIL-03A 803.208
2447243.61 310590.84 801.72872 0.56 WIL-03A 803.208
2447243.61 310590.84 801.45976 0.51 WIL-03A 803.208
2447243.61 310590.84 801.23016 0.54 WIL-03A 803.208
2447243.61 310590.84 801.20064 0.44 WIL-03A 803.208
2447202.826 310536.216 800.411 0.17 WIL-04 800.411
2447202.826 310536.216 800.17156 0.61 WIL-04 800.411
2447202.826 310536.216 799.94524 0.63 WIL-04 800.411
2447202.826 310536.216 799.69924 0.29 WIL-04 800.411
2447202.826 310536.216 799.4762 0.29 WIL-04 800.411
2447202.826 310536.216 799.2138 0.2 WIL-04 800.411
2447202.826 310536.216 798.97108 0.28 WIL-04 800.411
2447202.826 310536.216 798.7218 0.22 WIL-04 800.411
2447202.826 310536.216 798.45284 0.27 WIL-04 800.411
2447202.826 310536.216 798.20684 0.25 WIL-04 800.411
2447202.826 310536.216 797.96412 -0.01 WIL-04 800.411
2447202.826 310536.216 797.68532 0.03 WIL-04 800.411
2447202.826 310536.216 797.4098 0.12 WIL-04 800.411
2447202.826 310536.216 797.16052 0.08 WIL-04 800.411
2447202.826 310536.216 796.9014 -0.04 WIL-04 800.411
2447202.826 310536.216 796.76036 -0.04 WIL-04 800.411
2447138.389 310453.977 796.078 0.48 WIL-05 796.078
2447138.389 310453.977 795.84512 1.05 WIL-05 796.078
2447138.389 310453.977 795.57616 0.62 WIL-05 796.078
2447138.389 310453.977 795.34328 0.79 WIL-05 796.078
2447138.389 310453.977 795.21208 0.47 WIL-05 796.078
2447138.389 310453.977 794.97264 0.62 WIL-05 796.078
2447138.389 310453.977 794.766 0.41 WIL-05 796.078
2447138.389 310453.977 794.52328 2.2 WIL-05 796.078
2447138.389 310453.977 794.29696 4.36 WIL-05 796.078
2447138.389 310453.977 794.04768 0.53 WIL-05 796.078
2447138.389 310453.977 793.81808 0.5 WIL-05 796.078
2447138.389 310453.977 793.56224 1.09 WIL-05 796.078
2447138.389 310453.977 793.31296 0.48 WIL-05 796.078
2447138.389 310453.977 793.04072 0.53 WIL-05 796.078
2447138.389 310453.977 792.94232 0.39 WIL-05 796.078
2447138.389 310453.977 792.70944 0.45 WIL-05 796.078
2447138.389 310453.977 792.69304 0.35 WIL-05 796.078
2447138.389 310453.977 792.63728 0.19 WIL-05 796.078
2447138.389 310453.977 792.41424 0.8 WIL-05 796.078
2447138.389 310453.977 792.18792 1.33 WIL-05 796.078
2447138.389 310453.977 791.90256 0.58 WIL-05 796.078
2447138.389 310453.977 791.67624 0.37 WIL-05 796.078
2447138.389 310453.977 791.56144 0.18 WIL-05 796.078
2447138.389 310453.977 791.32528 0.46 WIL-05 796.078
2447138.389 310453.977 791.15144 0.05 WIL-05 796.078
2447138.389 310453.977 790.8956 0.25 WIL-05 796.078
2447138.389 310453.977 790.6496 0.78 WIL-05 796.078
2447138.389 310453.977 790.38064 1.1 WIL-05 796.078
2447138.389 310453.977 790.1576 0.94 WIL-05 796.078
2447138.389 310453.977 789.93128 1.06 WIL-05 796.078
2447138.389 310453.977 789.70824 0.06 WIL-05 796.078
2447138.389 310453.977 789.49832 0.03 WIL-05 796.078
2447138.389 310453.977 789.26544 0.81 WIL-05 796.078
2447138.389 310453.977 789.03256 -0.01 WIL-05 796.078
2447138.389 310453.977 788.78 1.35 WIL-05 796.078
```

2447138.389 310453.977 788.55696 1.21 WIL-05 796.078
2447138.389 310453.977 788.54056 0 WIL-05 796.078
2447138.389 310453.977 788.51104 0.1 WIL-05 796.078
2447138.389 310453.977 788.26504 0.08 WIL-05 796.078
2447138.389 310453.977 788.02888 0.66 WIL-05 796.078
2447138.389 310453.977 787.77304 0.44 WIL-05 796.078
2447138.389 310453.977 787.54672 1.18 WIL-05 796.078
2447138.389 310453.977 787.30728 1.92 WIL-05 796.078
2447138.389 310453.977 787.08424 0.12 WIL-05 796.078
2447138.389 310453.977 786.85136 -0.28 WIL-05 796.078
2447138.389 310453.977 786.62832 0.03 WIL-05 796.078
2447138.389 310453.977 786.51352 0 WIL-05 796.078
2447138.389 310453.977 786.4676 0.12 WIL-05 796.078
2447138.389 310453.977 786.21504 1.49 WIL-05 796.078
2447138.389 310453.977 785.95264 0.12 WIL-05 796.078
2447138.389 310453.977 785.7132 0.01 WIL-05 796.078
2447138.389 310453.977 785.45736 1.32 WIL-05 796.078
2447138.389 310453.977 785.172 0.75 WIL-05 796.078
2447138.389 310453.977 784.9096 0.69 WIL-05 796.078
2447138.389 310453.977 784.62096 1.04 WIL-05 796.078
2447138.389 310453.977 784.35856 0.98 WIL-05 796.078
2447138.389 310453.977 784.09616 1.79 WIL-05 796.078
2447138.389 310453.977 783.82392 0.38 WIL-05 796.078
2447138.389 310453.977 783.60088 1.9 WIL-05 796.078
2447138.389 310453.977 783.32864 1.04 WIL-05 796.078
2447138.389 310453.977 783.09576 2.2 WIL-05 796.078
2447138.389 310453.977 782.86288 2.25 WIL-05 796.078
2447138.389 310453.977 782.57752 1.4 WIL-05 796.078
2447138.389 310453.977 782.34792 1.3 WIL-05 796.078
2447138.389 310453.977 782.11504 0.56 WIL-05 796.078
2447138.389 310453.977 781.88544 37.08 WIL-05 796.078
2447138.389 310453.977 781.64272 1.52 WIL-05 796.078
2447138.389 310453.977 781.37704 232.93 WIL-05 796.078
2447138.389 310453.977 781.18024 363.3 WIL-05 796.078
2447138.389 310453.977 780.90472 370.26 WIL-05 796.078
2447138.389 310453.977 780.6456 2.73 WIL-05 796.078
2447138.389 310453.977 780.3996 10.49 WIL-05 796.078
2447138.389 310453.977 780.16016 12.08 WIL-05 796.078
2447138.389 310453.977 779.93384 31.78 WIL-05 796.078
2447138.389 310453.977 779.66488 9.45 WIL-05 796.078
2447138.389 310453.977 779.38608 1.24 WIL-05 796.078
2447138.389 310453.977 779.15648 1.63 WIL-05 796.078
2447138.389 310453.977 778.91376 2.66 WIL-05 796.078
2447138.389 310453.977 778.65464 4.53 WIL-05 796.078
2447138.389 310453.977 778.41192 1.98 WIL-05 796.078
2447138.389 310453.977 778.17248 1.84 WIL-05 796.078
2447138.389 310453.977 777.91008 3.9 WIL-05 796.078
2447138.389 310453.977 777.5952 1.62 WIL-05 796.078
2447138.389 310453.977 777.35576 0.76 WIL-05 796.078
2447138.389 310453.977 777.12944 1.38 WIL-05 796.078
2447138.389 310453.977 777.1032 0.98 WIL-05 796.078
2447142.591 310378.516 792.476 0.53 WIL-06 792.476
2447142.591 310378.516 792.24968 0.34 WIL-06 792.476
2447142.591 310378.516 792.02336 1.28 WIL-06 792.476
2447142.591 310378.516 791.7872 0.46 WIL-06 792.476
2447142.591 310378.516 791.5576 0.46 WIL-06 792.476
2447142.591 310378.516 791.33456 1.22 WIL-06 792.476
2447142.591 310378.516 791.08856 1.27 WIL-06 792.476
2447142.591 310378.516 790.85568 1.3 WIL-06 792.476
2447142.591 310378.516 790.58344 1.33 WIL-06 792.476
2447142.591 310378.516 790.35712 1.47 WIL-06 792.476
2447142.591 310378.516 790.07832 1.49 WIL-06 792.476
2447142.591 310378.516 789.80608 1.19 WIL-06 792.476
2447142.591 310378.516 789.56008 1.37 WIL-06 792.476
2447142.591 310378.516 789.33048 1.12 WIL-06 792.476
2447105.008 310337.706 790.16 0.02 WIL-07 790.16
2447105.008 310337.706 789.90416 0.84 WIL-07 790.16
2447105.008 310337.706 789.66144 0.4 WIL-07 790.16
2447105.008 310337.706 789.43512 0.29 WIL-07 790.16
2447105.008 310337.706 789.18912 0.34 WIL-07 790.16
2447105.008 310337.706 788.94968 0.44 WIL-07 790.16
2447105.008 310337.706 788.72336 0.3 WIL-07 790.16
2447105.008 310337.706 788.49048 0.56 WIL-07 790.16
2447105.008 310337.706 788.25432 0.3 WIL-07 790.16
2447105.008 310337.706 788.02144 0.63 WIL-07 790.16
2447105.008 310337.706 787.79512 0.33 WIL-07 790.16
2447105.008 310337.706 787.54912 0.31 WIL-07 790.16
2447105.008 310337.706 787.49664 0.28 WIL-07 790.16
2447044.157 310311.125 791.066 -0.2 WIL-08 791.066
2447044.157 310311.125 790.82656 0.59 WIL-08 791.066
2447044.157 310311.125 790.58712 0.11 WIL-08 791.066
2447044.157 310311.125 790.33128 0.34 WIL-08 791.066
2447044.157 310311.125 790.07544 0.32 WIL-08 791.066
2447044.157 310311.125 789.8524 0.03 WIL-08 791.066
2447044.157 310311.125 789.61624 0.03 WIL-08 791.066
2447044.157 310311.125 789.3932 0.39 WIL-08 791.066
2447044.157 310311.125 789.14392 0.41 WIL-08 791.066
2447044.157 310311.125 788.91432 0.33 WIL-08 791.066
2447044.157 310311.125 788.64536 0.04 WIL-08 791.066
2447044.157 310311.125 788.41904 0.26 WIL-08 791.066
2447044.157 310311.125 788.15336 0.08 WIL-08 791.066
2447044.157 310311.125 787.91064 0.15 WIL-08 791.066
2447044.157 310311.125 787.6548 0.07 WIL-08 791.066
2447044.157 310311.125 787.41864 0.08 WIL-08 791.066
2447044.157 310311.125 787.18576 -0.14 WIL-08 791.066
2447044.157 310311.125 786.92664 0 WIL-08 791.066
2447044.157 310311.125 786.64456 0.09 WIL-08 791.066
2447044.157 310311.125 786.39856 -0.02 WIL-08 791.066
2447044.157 310311.125 786.15256 -0.01 WIL-08 791.066
2447044.157 310311.125 785.91312 -0.1 WIL-08 791.066
2447044.157 310311.125 785.6868 0.05 WIL-08 791.066
2447044.157 310311.125 785.4244 0 WIL-08 791.066

```
2447044.157 310311.125 785.162 0.15 WIL-08 791.066
2447044.157 310311.125 784.90616 0.08 WIL-08 791.066
2447044.157 310311.125 784.66016 -0.28 WIL-08 791.066
2447044.157 310311.125 784.41416 -0.63 WIL-08 791.066
2447044.157 310311.125 784.16816 -0.49 WIL-08 791.066
2447044.157 310311.125 783.9156 -0.02 WIL-08 791.066
2447044.157 310311.125 783.66632 -0.14 WIL-08 791.066
2447044.157 310311.125 783.42032 -0.18 WIL-08 791.066
2447044.157 310311.125 783.1776 -0.15 WIL-08 791.066
2447044.157 310311.125 782.88568 0.22 WIL-08 791.066
2447044.157 310311.125 782.6364 -0.26 WIL-08 791.066
2447044.157 310311.125 782.3904 -0.41 WIL-08 791.066
2447044.157 310311.125 782.13784 -0.36 WIL-08 791.066
2447044.157 310311.125 781.85904 -0.2 WIL-08 791.066
2447044.157 310311.125 781.60648 -0.28 WIL-08 791.066
2447044.157 310311.125 781.37688 -0.34 WIL-08 791.066
2447044.157 310311.125 781.14728 -0.31 WIL-08 791.066
2447044.157 310311.125 780.88816 -0.18 WIL-08 791.066
2447044.157 310311.125 780.62576 -0.39 WIL-08 791.066
2447044.157 310311.125 780.37976 -0.4 WIL-08 791.066
2447044.157 310311.125 780.15672 -0.09 WIL-08 791.066
2447044.157 310311.125 779.98944 -0.24 WIL-08 791.066
2447006.457 310277.044 789.665 93.46 WIL-09 789.665
2447006.457 310277.044 789.65516 0.36 WIL-09 789.665
2447006.457 310277.044 789.5338 0.24 WIL-09 789.665
2447006.457 310277.044 789.46164 0.12 WIL-09 789.665
2447006.457 310277.044 789.34684 0.03 WIL-09 789.665
2447006.457 310277.044 789.03852 0.09 WIL-09 789.665
2447006.457 310277.044 788.80564 0.06 WIL-09 789.665
2447006.457 310277.044 788.67444 0 WIL-09 789.665
2447005.124 310274.81 790.778 0.15 WIL-09A 790.778
2447005.124 310274.81 790.53856 -0.04 WIL-09A 790.778
2447005.124 310274.81 790.28928 0.07 WIL-09A 790.778
2447005.124 310274.81 790.04656 0.01 WIL-09A 790.778
2447005.124 310274.81 789.81696 -0.03 WIL-09A 790.778
2447005.124 310274.81 789.548 0.09 WIL-09A 790.778
2447005.124 310274.81 789.32496 0.07 WIL-09A 790.778
2447005.124 310274.81 789.09536 -0.09 WIL-09A 790.778
2447005.124 310274.81 788.84608 -0.06 WIL-09A 790.778
2447005.124 310274.81 788.60992 0.05 WIL-09A 790.778
2447005.124 310274.81 788.3508 -0.02 WIL-09A 790.778
2447005.124 310274.81 788.072 0.03 WIL-09A 790.778
2447005.124 310274.81 787.84896 -0.06 WIL-09A 790.778
2447005.124 310274.81 787.56032 -0.08 WIL-09A 790.778
2447005.124 310274.81 787.3176 0.01 WIL-09A 790.778
2447005.124 310274.81 787.06832 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.82232 -0.01 WIL-09A 790.778
2447005.124 310274.81 786.5632 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.30408 -0.04 WIL-09A 790.778
2447005.124 310274.81 786.08104 0.01 WIL-09A 790.778
2447005.124 310274.81 785.85144 0.02 WIL-09A 790.778
2447005.124 310274.81 785.54312 -0.13 WIL-09A 790.778
2447005.124 310274.81 785.24136 -0.03 WIL-09A 790.778
2447005.124 310274.81 784.94616 -0.09 WIL-09A 790.778
2447005.124 310274.81 784.71 -0.01 WIL-09A 790.778
2447005.124 310274.81 784.47712 0.01 WIL-09A 790.778
2447005.124 310274.81 784.20488 0.07 WIL-09A 790.778
2447005.124 310274.81 783.94576 0.06 WIL-09A 790.778
2447005.124 310274.81 783.70304 0.03 WIL-09A 790.778
2447005.124 310274.81 783.43408 -0.35 WIL-09A 790.778
2447005.124 310274.81 783.17168 -0.49 WIL-09A 790.778
2447005.124 310274.81 782.9388 -0.55 WIL-09A 790.778
2447005.124 310274.81 782.6436 -0.55 WIL-09A 790.778
2447005.124 310274.81 782.5616 -0.46 WIL-09A 790.778
2446955.831 310215.752 788.605 0.56 WIL-10 788.605
2446955.831 310215.752 788.31636 -0.3 WIL-10 788.605
2446955.831 310215.752 788.01132 -0.4 WIL-10 788.605
2446955.831 310215.752 787.69316 -0.52 WIL-10 788.605
2446955.831 310215.752 787.457 -0.68 WIL-10 788.605
2446955.831 310215.752 787.07652 -0.33 WIL-10 788.605
2446955.831 310215.752 786.8174 -0.57 WIL-10 788.605
2446955.831 310215.752 786.59436 -0.44 WIL-10 788.605
2446955.831 310215.752 786.34508 -0.45 WIL-10 788.605
2446955.831 310215.752 786.0958 -0.39 WIL-10 788.605
2446955.831 310215.752 785.86948 -0.58 WIL-10 788.605
2446955.831 310215.752 785.64644 -0.56 WIL-10 788.605
2446955.831 310215.752 785.40044 -0.45 WIL-10 788.605
2446955.831 310215.752 785.14132 -0.43 WIL-10 788.605
2446955.831 310215.752 784.915 -0.46 WIL-10 788.605
2446955.831 310215.752 784.68868 -0.39 WIL-10 788.605
2446955.831 310215.752 784.42956 -0.46 WIL-10 788.605
2446955.831 310215.752 784.18684 -0.54 WIL-10 788.605
2446955.831 310215.752 783.9474 -0.43 WIL-10 788.605
2446955.831 310215.752 783.7178 -0.51 WIL-10 788.605
2446955.831 310215.752 783.46196 -0.39 WIL-10 788.605
2446955.831 310215.752 783.23236 -0.58 WIL-10 788.605
2446955.831 310215.752 782.95028 -0.57 WIL-10 788.605
2446955.831 310215.752 782.7174 -0.37 WIL-10 788.605
2446955.831 310215.752 782.46812 -0.52 WIL-10 788.605
2446955.831 310215.752 782.23196 -0.4 WIL-10 788.605
2446955.831 310215.752 781.99908 -0.54 WIL-10 788.605
2446955.831 310215.752 781.75308 -0.36 WIL-10 788.605
2446955.831 310215.752 781.48084 -0.34 WIL-10 788.605
2446955.831 310215.752 781.24468 -0.42 WIL-10 788.605
2446955.831 310215.752 780.98884 0.19 WIL-10 788.605
2446955.831 310215.752 780.733 -0.39 WIL-10 788.605
2446955.831 310215.752 780.4706 -0.44 WIL-10 788.605
2446955.831 310215.752 780.23772 -0.68 WIL-10 788.605
2446955.831 310215.752 779.97204 -0.38 WIL-10 788.605
2446955.831 310215.752 779.71948 -0.21 WIL-10 788.605
2446955.831 310215.752 779.49316 -0.38 WIL-10 788.605
2446955.831 310215.752 779.25044 -0.43 WIL-10 788.605
```

```
2446955.831 310215.752 778.98476 -0.36 WIL-10 788.605
2446955.831 310215.752 778.75844 -0.32 WIL-10 788.605
2446955.831 310215.752 778.53212 -0.38 WIL-10 788.605
2446955.831 310215.752 778.2566 -0.44 WIL-10 788.605
2446955.831 310215.752 777.98108 -0.17 WIL-10 788.605
2446955.831 310215.752 777.70228 -0.54 WIL-10 788.605
2446955.831 310215.752 777.4366 -0.44 WIL-10 788.605
2446955.831 310215.752 777.16436 -0.45 WIL-10 788.605
2446955.831 310215.752 776.86588 -0.45 WIL-10 788.605
2446955.831 310215.752 776.59692 -0.52 WIL-10 788.605
2446955.831 310215.752 776.30172 -0.26 WIL-10 788.605
2446955.831 310215.752 776.00324 -0.27 WIL-10 788.605
2446955.831 310215.752 775.6982 -0.48 WIL-10 788.605
2446955.831 310215.752 775.4358 -0.04 WIL-10 788.605
2446955.831 310215.752 775.20292 -0.27 WIL-10 788.605
2446955.831 310215.752 774.96348 -0.33 WIL-10 788.605
2446955.831 310215.752 774.69124 -0.27 WIL-10 788.605
2446955.831 310215.752 774.3862 -0.27 WIL-10 788.605
2446955.831 310215.752 774.12052 0.64 WIL-10 788.605
2446955.831 310215.752 773.88764 1.11 WIL-10 788.605
2446955.831 310215.752 773.65476 -0.23 WIL-10 788.605
2446955.831 310215.752 773.52356 -0.22 WIL-10 788.605
2446948.055 310181.68 786.529 0.1 WIL-11 786.529
2446948.055 310181.68 785.64996 -0.37 WIL-11 786.529
2446948.055 310181.68 785.19732 -0.31 WIL-11 786.529
2446948.055 310181.68 784.95132 -0.37 WIL-11 786.529
2446948.055 310181.68 784.6102 -0.25 WIL-11 786.529
2446948.055 310181.68 784.38716 -0.25 WIL-11 786.529
2446948.055 310181.68 784.13788 -0.46 WIL-11 786.529
2446948.055 310181.68 783.90828 -0.38 WIL-11 786.529
2446948.055 310181.68 783.65572 -0.34 WIL-11 786.529
2446948.055 310181.68 783.42284 -0.29 WIL-11 786.529
2446948.055 310181.68 783.19652 -0.55 WIL-11 786.529
2446948.055 310181.68 782.92428 -0.53 WIL-11 786.529
2446948.055 310181.68 782.6586 0 WIL-11 786.529
2446948.055 310181.68 782.3634 -0.35 WIL-11 786.529
2446948.055 310181.68 782.10428 -0.35 WIL-11 786.529
2446948.055 310181.68 781.855 -0.32 WIL-11 786.529
2446948.055 310181.68 781.53028 -0.34 WIL-11 786.529
2446948.055 310181.68 781.30396 -0.24 WIL-11 786.529
2446948.055 310181.68 781.05796 -0.36 WIL-11 786.529
2446948.055 310181.68 780.82836 -0.39 WIL-11 786.529
2446948.055 310181.68 780.53316 -0.42 WIL-11 786.529
2446948.055 310181.68 780.29044 -0.41 WIL-11 786.529
2446948.055 310181.68 780.01492 -0.42 WIL-11 786.529
2446948.055 310181.68 779.7558 -0.38 WIL-11 786.529
2446948.055 310181.68 779.53276 -0.27 WIL-11 786.529
2446948.055 310181.68 779.27364 -0.39 WIL-11 786.529
2446948.055 310181.68 779.04732 -0.44 WIL-11 786.529
2446948.055 310181.68 778.8046 -0.42 WIL-11 786.529
2446948.055 310181.68 778.57828 -0.45 WIL-11 786.529
2446948.055 310181.68 778.34868 -0.43 WIL-11 786.529
2446948.055 310181.68 778.12564 -0.37 WIL-11 786.529
2446948.055 310181.68 777.87636 -0.31 WIL-11 786.529
2446948.055 310181.68 777.65004 -0.4 WIL-11 786.529
2446948.055 310181.68 777.41388 -0.44 WIL-11 786.529
2446948.055 310181.68 777.1318 -0.4 WIL-11 786.529
2446948.055 310181.68 776.9022 -0.38 WIL-11 786.529
2446948.055 310181.68 776.67588 -0.37 WIL-11 786.529
2446948.055 310181.68 776.38068 -0.36 WIL-11 786.529
2446948.055 310181.68 776.14124 -0.41 WIL-11 786.529
2446948.055 310181.68 775.8854 -0.56 WIL-11 786.529
2446948.055 310181.68 775.62956 -0.44 WIL-11 786.529
2446948.055 310181.68 775.40652 -0.32 WIL-11 786.529
2446948.055 310181.68 775.131 -0.38 WIL-11 786.529
2446948.055 310181.68 774.84892 -0.41 WIL-11 786.529
2446948.055 310181.68 774.557 -0.42 WIL-11 786.529
2446948.055 310181.68 774.33068 -0.34 WIL-11 786.529
2446948.055 310181.68 774.07812 -0.56 WIL-11 786.529
2446948.055 310181.68 773.8518 -0.52 WIL-11 786.529
2446948.055 310181.68 773.60908 -0.44 WIL-11 786.529
2446948.055 310181.68 773.34996 -0.52 WIL-11 786.529
2446948.055 310181.68 773.081 -0.43 WIL-11 786.529
2446948.055 310181.68 772.8514 -0.44 WIL-11 786.529
2446948.055 310181.68 772.64148 -0.39 WIL-11 786.529
2446913.87 310146.047 784.331 0.05 WIL-12 784.331
2446913.87 310146.047 784.04564 -0.37 WIL-12 784.331
2446913.87 310146.047 783.78324 -0.11 WIL-12 784.331
2446913.87 310146.047 783.45524 -0.19 WIL-12 784.331
2446913.87 310146.047 783.19612 -0.15 WIL-12 784.331
2446913.87 310146.047 782.937 -0.31 WIL-12 784.331
2446913.87 310146.047 782.65164 -0.18 WIL-12 784.331
2446913.87 310146.047 782.36956 -0.2 WIL-12 784.331
2446913.87 310146.047 782.12356 -0.01 WIL-12 784.331
2446913.87 310146.047 781.8546 0.07 WIL-12 784.331
2446913.87 310146.047 781.60532 0.09 WIL-12 784.331
2446913.87 310146.047 781.35604 0 WIL-12 784.331
2446913.87 310146.047 781.06084 -0.07 WIL-12 784.331
2446913.87 310146.047 780.82796 -0.12 WIL-12 784.331
2446913.87 310146.047 780.57868 0.15 WIL-12 784.331
2446913.87 310146.047 780.3294 -0.06 WIL-12 784.331
2446913.87 310146.047 780.07356 -0.08 WIL-12 784.331
2446913.87 310146.047 779.80788 0.3 WIL-12 784.331
2446913.87 310146.047 779.57828 0.24 WIL-12 784.331
2446913.87 310146.047 779.2798 0.16 WIL-12 784.331
2446913.87 310146.047 779.05348 0.23 WIL-12 784.331
2446913.87 310146.047 778.80092 -0.24 WIL-12 784.331
2446913.87 310146.047 778.53852 -0.19 WIL-12 784.331
2446913.87 310146.047 778.28268 -0.2 WIL-12 784.331
2446913.87 310146.047 778.05308 -0.07 WIL-12 784.331
2446913.87 310146.047 777.82348 -0.07 WIL-12 784.331
2446913.87 310146.047 777.55452 -0.09 WIL-12 784.331
```

```
2446913.87 310146.047 777.28228 -0.1 WIL-12 784.331
2446913.87 310146.047 777.01004 -0.07 WIL-12 784.331
2446913.87 310146.047 776.71484 -0.14 WIL-12 784.331
2446913.87 310146.047 776.45572 -0.25 WIL-12 784.331
2446913.87 310146.047 776.20644 -0.27 WIL-12 784.331
2446913.87 310146.047 775.97684 -0.07 WIL-12 784.331
2446913.87 310146.047 775.69148 0.09 WIL-12 784.331
2446913.87 310146.047 775.4258 -0.15 WIL-12 784.331
2446913.87 310146.047 775.1962 -0.23 WIL-12 784.331
2446913.87 310146.047 774.9666 -0.18 WIL-12 784.331
2446913.87 310146.047 774.67468 -0.2 WIL-12 784.331
2446913.87 310146.047 774.40572 -0.37 WIL-12 784.331
2446913.87 310146.047 774.18268 -0.21 WIL-12 784.331
2446913.87 310146.047 773.92356 -0.17 WIL-12 784.331
2446913.87 310146.047 773.6546 -0.23 WIL-12 784.331
2446913.87 310146.047 773.35612 -0.15 WIL-12 784.331
2446913.87 310146.047 773.08716 -0.08 WIL-12 784.331
2446913.87 310146.047 772.80836 -0.11 WIL-12 784.331
2446913.87 310146.047 772.57876 -0.12 WIL-12 784.331
2446913.87 310146.047 772.3262 -0.12 WIL-12 784.331
2446913.87 310146.047 772.06708 -0.18 WIL-12 784.331
2446913.87 310146.047 772.04084 -0.16 WIL-12 784.331
2446876.427 310093.162 783.32 -0.11 WIL-13 783.32
2446876.427 310093.162 783.04776 -0.61 WIL-13 783.32
2446876.427 310093.162 782.73616 -0.61 WIL-13 783.32
2446876.427 310093.162 782.34912 -0.47 WIL-13 783.32
2446876.427 310093.162 781.926 -1.06 WIL-13 783.32
2446876.427 310093.162 781.69968 -0.38 WIL-13 783.32
2446876.427 310093.162 781.45368 -0.47 WIL-13 783.32
2446876.427 310093.162 781.21752 -0.1 WIL-13 783.32
2446876.427 310093.162 780.97808 -0.05 WIL-13 783.32
2446876.427 310093.162 780.73536 -0.42 WIL-13 783.32
2446876.427 310093.162 780.50904 -0.89 WIL-13 783.32
2446876.427 310093.162 780.2532 -0.39 WIL-13 783.32
2446876.427 310093.162 779.99408 -0.37 WIL-13 783.32
2446876.427 310093.162 779.77104 -0.25 WIL-13 783.32
2446876.427 310093.162 779.52176 -0.58 WIL-13 783.32
2446876.427 310093.162 779.28232 -0.42 WIL-13 783.32
2446876.427 310093.162 779.00024 -0.25 WIL-13 783.32
2446876.427 310093.162 778.728 -0.44 WIL-13 783.32
2446876.427 310093.162 778.42952 -0.66 WIL-13 783.32
2446876.427 310093.162 778.18024 -0.3 WIL-13 783.32
2446876.427 310093.162 777.93752 -0.35 WIL-13 783.32
2446876.427 310093.162 777.68824 -0.12 WIL-13 783.32
2446876.427 310093.162 777.45864 -0.44 WIL-13 783.32
2446876.427 310093.162 777.15688 -1.01 WIL-13 783.32
2446876.427 310093.162 776.87152 -0.43 WIL-13 783.32
2446876.427 310093.162 776.62224 -0.65 WIL-13 783.32
2446876.427 310093.162 776.38936 -0.39 WIL-13 783.32
2446876.427 310093.162 776.15976 -0.38 WIL-13 783.32
2446876.427 310093.162 775.9236 -0.69 WIL-13 783.32
2446876.427 310093.162 775.69728 -0.43 WIL-13 783.32
2446876.427 310093.162 775.42504 -0.45 WIL-13 783.32
2446876.427 310093.162 775.19216 -0.53 WIL-13 783.32
2446876.427 310093.162 774.96584 -0.32 WIL-13 783.32
2446876.427 310093.162 774.71984 -0.55 WIL-13 783.32
2446876.427 310093.162 774.4968 -0.38 WIL-13 783.32
2446876.427 310093.162 774.2344 -0.37 WIL-13 783.32
2446876.427 310093.162 774.01792 -0.45 WIL-13 783.32
2446869.481 310045.617 783.673 -0.5 WIL-14 783.673
2446869.481 310045.617 783.42044 -0.54 WIL-14 783.673
2446869.481 310045.617 783.1646 -0.73 WIL-14 783.673
2446869.481 310045.617 782.90876 -0.86 WIL-14 783.673
2446869.481 310045.617 782.65948 -0.57 WIL-14 783.673
2446869.481 310045.617 782.43316 -0.52 WIL-14 783.673
2446869.481 310045.617 782.17732 -0.42 WIL-14 783.673
2446869.481 310045.617 781.9018 -0.52 WIL-14 783.673
2446869.481 310045.617 781.6558 -0.49 WIL-14 783.673
2446869.481 310045.617 781.35404 0.77 WIL-14 783.673
2446869.481 310045.617 781.1146 0.67 WIL-14 783.673
2446869.481 310045.617 780.85876 1.21 WIL-14 783.673
2446869.481 310045.617 780.5898 6.06 WIL-14 783.673
2446869.481 310045.617 780.36676 2.83 WIL-14 783.673
2446869.481 310045.617 780.14372 3.73 WIL-14 783.673
2446869.481 310045.617 779.84852 4.05 WIL-14 783.673
2446869.481 310045.617 779.47788 2.28 WIL-14 783.673
2446869.481 310045.617 779.245 1.47 WIL-14 783.673
2446869.481 310045.617 778.99244 1.71 WIL-14 783.673
2446869.481 310045.617 778.7366 0.45 WIL-14 783.673
2446869.481 310045.617 778.48732 0.34 WIL-14 783.673
2446869.481 310045.617 778.26428 -0.24 WIL-14 783.673
2446869.481 310045.617 777.97564 -0.52 WIL-14 783.673
2446869.481 310045.617 777.7526 -0.64 WIL-14 783.673
2446869.481 310045.617 777.52628 -0.64 WIL-14 783.673
2446869.481 310045.617 777.29012 -1.33 WIL-14 783.673
2446869.481 310045.617 777.04412 -0.78 WIL-14 783.673
2446869.481 310045.617 776.79156 0.48 WIL-14 783.673
2446869.481 310045.617 776.539 -1.04 WIL-14 783.673
2446869.481 310045.617 776.2766 -0.63 WIL-14 783.673
2446869.481 310045.617 776.047 -1.08 WIL-14 783.673
2446869.481 310045.617 775.79444 -1.15 WIL-14 783.673
2446869.481 310045.617 775.52876 -0.95 WIL-14 783.673
2446869.481 310045.617 775.28932 -0.59 WIL-14 783.673
2446869.481 310045.617 775.04988 -0.68 WIL-14 783.673
2446869.481 310045.617 774.82028 -0.71 WIL-14 783.673
2446869.481 310045.617 774.58412 -0.54 WIL-14 783.673
2446869.481 310045.617 774.34468 -0.7 WIL-14 783.673
2446869.481 310045.617 774.1118 -0.63 WIL-14 783.673
2446869.481 310045.617 773.88548 -1.31 WIL-14 783.673
2446869.481 310045.617 773.66244 -1.16 WIL-14 783.673
2446869.481 310045.617 773.4394 -0.82 WIL-14 783.673
2446869.481 310045.617 773.2098 -0.63 WIL-14 783.673
```

```
2446869.481 310045.617 772.97036 -1.26 WIL-14 783.673
2446869.481 310045.617 772.67844 -0.83 WIL-14 783.673
2446869.481 310045.617 772.439 -0.87 WIL-14 783.673
2446869.481 310045.617 772.16676 -1.09 WIL-14 783.673
2446869.481 310045.617 771.92076 -0.69 WIL-14 783.673
2446869.481 310045.617 771.65836 -0.66 WIL-14 783.673
2446869.481 310045.617 771.48124 -0.71 WIL-14 783.673
2446920.467 310013.691 782.732 -0.77 WIL-15 782.732
2446920.467 310013.691 782.5024 -0.94 WIL-15 782.732
2446920.467 310013.691 782.24328 -0.87 WIL-15 782.732
2446920.467 310013.691 782.00056 -1.08 WIL-15 782.732
2446920.467 310013.691 781.71848 -0.88 WIL-15 782.732
2446920.467 310013.691 781.48888 -0.97 WIL-15 782.732
2446920.467 310013.691 781.19696 -0.55 WIL-15 782.732
2446920.467 310013.691 780.97392 -0.87 WIL-15 782.732
2446920.467 310013.691 780.72792 -0.54 WIL-15 782.732
2446920.467 310013.691 780.49504 -0.34 WIL-15 782.732
2446920.467 310013.691 780.18344 -0.51 WIL-15 782.732
2446920.467 310013.691 779.90136 -0.7 WIL-15 782.732
2446920.467 310013.691 779.6488 -0.59 WIL-15 782.732
2446920.467 310013.691 779.34376 -0.72 WIL-15 782.732
2446920.467 310013.691 779.05184 -0.59 WIL-15 782.732
2446920.467 310013.691 778.7304 -0.76 WIL-15 782.732
2446920.467 310013.691 778.49424 -0.62 WIL-15 782.732
2446920.467 310013.691 778.2384 -0.91 WIL-15 782.732
2446920.467 310013.691 778.00224 -0.72 WIL-15 782.732
2446920.467 310013.691 777.7628 -0.7 WIL-15 782.732
2446920.467 310013.691 777.49712 -0.77 WIL-15 782.732
2446920.467 310013.691 777.21176 -0.78 WIL-15 782.732
2446920.467 310013.691 776.96576 -0.62 WIL-15 782.732
2446920.467 310013.691 776.73944 -0.87 WIL-15 782.732
2446920.467 310013.691 776.48688 -0.57 WIL-15 782.732
2446920.467 310013.691 776.24416 -0.93 WIL-15 782.732
2446920.467 310013.691 776.02112 -1.05 WIL-15 782.732
2446920.467 310013.691 775.73248 -0.75 WIL-15 782.732
2446920.467 310013.691 775.50616 -0.56 WIL-15 782.732
2446920.467 310013.691 775.21424 -0.71 WIL-15 782.732
2446920.467 310013.691 774.9584 -0.22 WIL-15 782.732
2446920.467 310013.691 774.67632 -0.05 WIL-15 782.732
2446920.467 310013.691 774.42704 -0.72 WIL-15 782.732
2446920.467 310013.691 774.1384 -0.79 WIL-15 782.732
2446920.467 310013.691 773.91536 -0.93 WIL-15 782.732
2446920.467 310013.691 773.69232 -0.77 WIL-15 782.732
2446920.467 310013.691 773.4496 -0.66 WIL-15 782.732
2446920.467 310013.691 773.1708 -0.7 WIL-15 782.732
2446920.467 310013.691 772.88216 -0.77 WIL-15 782.732
2446920.467 310013.691 772.58696 -0.75 WIL-15 782.732
2446920.467 310013.691 772.28192 -0.7 WIL-15 782.732
2446920.467 310013.691 771.99984 -0.98 WIL-15 782.732
2446920.467 310013.691 771.67512 -0.81 WIL-15 782.732
2446920.467 310013.691 771.4488 -0.57 WIL-15 782.732
2446970.606 309978.32 783.93 -1.26 WIL-16 783.93
2446970.606 309978.32 783.58888 -0.79 WIL-16 783.93
2446970.606 309978.32 783.31336 -1.17 WIL-16 783.93
2446970.606 309978.32 782.97224 -0.91 WIL-16 783.93
2446970.606 309978.32 782.73936 -0.63 WIL-16 783.93
2446970.606 309978.32 782.50976 -0.69 WIL-16 783.93
2446970.606 309978.32 782.23096 -0.62 WIL-16 783.93
2446970.606 309978.32 781.98168 -0.69 WIL-16 783.93
2446970.606 309978.32 781.70616 -0.92 WIL-16 783.93
2446970.606 309978.32 781.42408 -0.82 WIL-16 783.93
2446970.606 309978.32 781.18792 -0.73 WIL-16 783.93
2446970.606 309978.32 780.9124 -0.9 WIL-16 783.93
2446970.606 309978.32 780.65984 -1.06 WIL-16 783.93
2446970.606 309978.32 780.3876 -1.29 WIL-16 783.93
2446970.606 309978.32 780.158 -1.18 WIL-16 783.93
2446970.606 309978.32 779.8628 -1.05 WIL-16 783.93
2446970.606 309978.32 779.62336 -1.34 WIL-16 783.93
2446970.606 309978.32 779.36096 -1.19 WIL-16 783.93
2446970.606 309978.32 779.11824 -1.3 WIL-16 783.93
2446970.606 309978.32 778.85584 -1.25 WIL-16 783.93
2446970.606 309978.32 778.61312 -1.14 WIL-16 783.93
2446970.606 309978.32 778.3704 -1.2 WIL-16 783.93
2446970.606 309978.32 778.10472 -1.12 WIL-16 783.93
2446970.606 309978.32 777.83248 -1.29 WIL-16 783.93
2446970.606 309978.32 777.57008 -1.16 WIL-16 783.93
2446970.606 309978.32 777.30112 -1.36 WIL-16 783.93
2446970.606 309978.32 777.0584 -1.07 WIL-16 783.93
2446970.606 309978.32 776.79272 -1.1 WIL-16 783.93
2446970.606 309978.32 776.53688 -1.39 WIL-16 783.93
2446970.606 309978.32 776.29088 -1.32 WIL-16 783.93
2446970.606 309978.32 776.04816 -1.43 WIL-16 783.93
2446970.606 309978.32 775.80216 -1.41 WIL-16 783.93
2446970.606 309978.32 775.5496 -1.06 WIL-16 783.93
2446970.606 309978.32 775.32328 -0.54 WIL-16 783.93
2446970.606 309978.32 775.07728 -0.96 WIL-16 783.93
2446970.606 309978.32 774.81488 -1.02 WIL-16 783.93
2446970.606 309978.32 774.5656 -0.88 WIL-16 783.93
2446970.606 309978.32 774.30648 -0.52 WIL-16 783.93
2446970.606 309978.32 774.0244 -0.94 WIL-16 783.93
2446970.606 309978.32 773.77184 -1.1 WIL-16 783.93
2446970.606 309978.32 773.48648 -0.61 WIL-16 783.93
2446970.606 309978.32 773.19784 -0.76 WIL-16 783.93
2446970.606 309978.32 772.95512 -1.28 WIL-16 783.93
2446970.606 309978.32 772.6632 -1.23 WIL-16 783.93
2446970.606 309978.32 772.3516 -0.68 WIL-16 783.93
2446970.606 309978.32 772.07608 -1.06 WIL-16 783.93
2446970.606 309978.32 771.81368 -0.92 WIL-16 783.93
2446970.606 309978.32 771.5808 -0.91 WIL-16 783.93
2446970.606 309978.32 771.34136 -1.37 WIL-16 783.93
2446970.606 309978.32 771.09864 -1.25 WIL-16 783.93
2446970.606 309978.32 770.83952 -1.01 WIL-16 783.93
```

```
2446970.606 309978.32 770.6132 -0.9 WIL-16 783.93
2446970.606 309978.32 770.34752 -1.17 WIL-16 783.93
2446970.606 309978.32 770.09496 -1.46 WIL-16 783.93
2446970.606 309978.32 769.84896 -1.22 WIL-16 783.93
2446970.606 309978.32 769.5964 -0.94 WIL-16 783.93
2446970.606 309978.32 769.334 -1.07 WIL-16 783.93
2446970.606 309978.32 769.07816 -1.42 WIL-16 783.93
2446970.606 309978.32 768.84856 -1.3 WIL-16 783.93
2446970.606 309978.32 768.57632 -1.14 WIL-16 783.93
2446970.606 309978.32 768.34344 -1.21 WIL-16 783.93
2446970.606 309978.32 768.07448 -1.21 WIL-16 783.93
2446970.606 309978.32 767.84488 -1.27 WIL-16 783.93
2446970.606 309978.32 767.57264 -1.05 WIL-16 783.93
2446970.606 309978.32 767.33976 -1.32 WIL-16 783.93
2446970.606 309978.32 767.1036 -1.09 WIL-16 783.93
2446970.606 309978.32 766.81496 -1.38 WIL-16 783.93
2446970.606 309978.32 766.81168 -0.93 WIL-16 783.93
2447032.52 309968.117 783.728 0.28 WIL-17 783.728
2447032.52 309968.117 783.46232 -0.72 WIL-17 783.728
2447032.52 309968.117 783.154 -0.53 WIL-17 783.728
2447032.52 309968.117 782.88176 -0.86 WIL-17 783.728
2447032.52 309968.117 782.62264 -0.51 WIL-17 783.728
2447032.52 309968.117 782.37336 -0.58 WIL-17 783.728
2447032.52 309968.117 782.13064 -0.78 WIL-17 783.728
2447032.52 309968.117 781.88792 -0.77 WIL-17 783.728
2447032.52 309968.117 781.6452 -0.85 WIL-17 783.728
2447032.52 309968.117 781.3828 -0.62 WIL-17 783.728
2447032.52 309968.117 781.1204 -0.66 WIL-17 783.728
2447032.52 309968.117 780.83832 -0.54 WIL-17 783.728
2447032.52 309968.117 780.59888 -0.59 WIL-17 783.728
2447032.52 309968.117 780.32336 -0.58 WIL-17 783.728
2447032.52 309968.117 780.04456 -0.61 WIL-17 783.728
2447032.52 309968.117 779.76904 -0.5 WIL-17 783.728
2447032.52 309968.117 779.546 -0.65 WIL-17 783.728
2447032.52 309968.117 779.30656 -0.62 WIL-17 783.728
2447032.52 309968.117 779.06712 -0.61 WIL-17 783.728
2447032.52 309968.117 778.81128 -0.61 WIL-17 783.728
2447032.52 309968.117 778.53576 -0.69 WIL-17 783.728
2447032.52 309968.117 778.28976 -0.63 WIL-17 783.728
2447032.52 309968.117 778.05032 -0.66 WIL-17 783.728
2447032.52 309968.117 777.78464 -0.73 WIL-17 783.728
2447032.52 309968.117 777.48944 -0.74 WIL-17 783.728
2447032.52 309968.117 777.2172 -0.87 WIL-17 783.728
2447032.52 309968.117 776.99416 -0.6 WIL-17 783.728
2447032.52 309968.117 776.74488 -0.52 WIL-17 783.728
2447032.52 309968.117 776.51528 -0.88 WIL-17 783.728
2447032.52 309968.117 776.27912 -0.59 WIL-17 783.728
2447032.52 309968.117 776.04624 -0.69 WIL-17 783.728
2447032.52 309968.117 775.75104 -0.55 WIL-17 783.728
2447032.52 309968.117 775.45912 -0.58 WIL-17 783.728
2447032.52 309968.117 775.23608 -0.72 WIL-17 783.728
2447032.52 309968.117 774.97368 -0.86 WIL-17 783.728
2447032.52 309968.117 774.73752 -0.64 WIL-17 783.728
2447032.52 309968.117 774.49152 -0.62 WIL-17 783.728
2447032.52 309968.117 774.20288 -0.72 WIL-17 783.728
2447032.52 309968.117 773.95688 -0.72 WIL-17 783.728
2447032.52 309968.117 773.68464 -0.78 WIL-17 783.728
2447032.52 309968.117 773.42552 -0.91 WIL-17 783.728
2447032.52 309968.117 773.20248 -0.72 WIL-17 783.728
2447032.52 309968.117 772.8712 -0.64 WIL-17 783.728
2447032.52 309968.117 772.57928 -0.53 WIL-17 783.728
2447032.52 309968.117 772.3136 -0.88 WIL-17 783.728
2447032.52 309968.117 772.084 -0.6 WIL-17 783.728
2447032.52 309968.117 771.81504 -0.63 WIL-17 783.728
2447032.52 309968.117 771.58544 -0.63 WIL-17 783.728
2447032.52 309968.117 771.34928 -0.55 WIL-17 783.728
2447032.52 309968.117 771.02456 -0.69 WIL-17 783.728
2447032.52 309968.117 770.71624 -0.66 WIL-17 783.728
2447032.52 309968.117 770.44728 -0.65 WIL-17 783.728
2447032.52 309968.117 770.21768 -0.66 WIL-17 783.728
2447032.52 309968.117 769.97496 -0.61 WIL-17 783.728
2447032.52 309968.117 769.68632 -0.46 WIL-17 783.728
2447032.52 309968.117 769.42392 -0.51 WIL-17 783.728
2447032.52 309968.117 769.15496 -0.36 WIL-17 783.728
2447032.52 309968.117 768.92208 -0.39 WIL-17 783.728
2447032.52 309968.117 768.63672 -0.51 WIL-17 783.728
2447032.52 309968.117 768.35136 -0.41 WIL-17 783.728
2447032.52 309968.117 768.0824 -0.32 WIL-17 783.728
2447032.52 309968.117 767.82 -0.61 WIL-17 783.728
2447032.52 309968.117 767.53136 -0.19 WIL-17 783.728
2447032.52 309968.117 767.24272 -0.5 WIL-17 783.728
2447032.52 309968.117 766.94096 -0.53 WIL-17 783.728
2447032.52 309968.117 766.69168 -0.7 WIL-17 783.728
2447032.52 309968.117 766.426 -0.35 WIL-17 783.728
2447032.52 309968.117 766.14064 -0.59 WIL-17 783.728
2447032.52 309968.117 765.8684 -0.54 WIL-17 783.728
2447032.52 309968.117 765.61584 -0.36 WIL-17 783.728
2447032.52 309968.117 765.36328 -0.48 WIL-17 783.728
2447032.52 309968.117 765.14024 -0.63 WIL-17 783.728
2447032.52 309968.117 764.86472 -0.4 WIL-17 783.728
2447032.52 309968.117 764.56624 -0.27 WIL-17 783.728
2447032.52 309968.117 764.30056 -0.49 WIL-17 783.728
2447032.52 309968.117 764.07752 -0.46 WIL-17 783.728
2447032.52 309968.117 763.78232 -0.28 WIL-17 783.728
2447032.52 309968.117 763.49368 -0.31 WIL-17 783.728
2447032.52 309968.117 763.24768 -0.53 WIL-17 783.728
2447032.52 309968.117 763.00824 -0.34 WIL-17 783.728
2447032.52 309968.117 762.77208 -0.27 WIL-17 783.728
2447032.52 309968.117 762.48672 -0.46 WIL-17 783.728
2447032.52 309968.117 762.1948 -0.37 WIL-17 783.728
2447032.52 309968.117 761.8832 -0.45 WIL-17 783.728
2447032.52 309968.117 761.56832 -0.4 WIL-17 783.728
```

```
2447032.52 309968.117 761.25672 -0.15 WIL-17 783.728
2447032.52 309968.117 760.932 -0.37 WIL-17 783.728
2447032.52 309968.117 760.66632 -0.35 WIL-17 783.728
2447032.52 309968.117 760.44 -0.32 WIL-17 783.728
2447032.52 309968.117 760.1776 -0.31 WIL-17 783.728
2447032.52 309968.117 760.14152 -0.29 WIL-17 783.728
2447091.815 309977.165 784.799 0.73 WIL-18 784.799
2447091.815 309977.165 784.52348 0.85 WIL-18 784.799
2447091.815 309977.165 784.3562 0.64 WIL-18 784.799
2447091.815 309977.165 784.13316 1.14 WIL-18 784.799
2447091.815 309977.165 784.00524 0.33 WIL-18 784.799
2447091.815 309977.165 783.55916 1.06 WIL-18 784.799
2447091.815 309977.165 783.34268 0.29 WIL-18 784.799
2447091.815 309977.165 783.3394 0.26 WIL-18 784.799
2447091.815 309977.165 783.11636 1.51 WIL-18 784.799
2447091.815 309977.165 782.87036 1.56 WIL-18 784.799
2447091.815 309977.165 782.63092 1.4 WIL-18 784.799
2447091.815 309977.165 782.38492 0.79 WIL-18 784.799
2447091.815 309977.165 782.13236 0.73 WIL-18 784.799
2447091.815 309977.165 781.89948 1.02 WIL-18 784.799
2447091.815 309977.165 781.6338 0.64 WIL-18 784.799
2447091.815 309977.165 781.38452 0.39 WIL-18 784.799
2447091.815 309977.165 781.1418 0.33 WIL-18 784.799
2447091.815 309977.165 780.92532 0.17 WIL-18 784.799
2447091.815 309977.165 780.699 0.75 WIL-18 784.799
2447091.815 309977.165 780.66948 0.13 WIL-18 784.799
2447091.815 309977.165 780.41692 0.33 WIL-18 784.799
2447091.815 309977.165 780.17092 0.67 WIL-18 784.799
2447091.815 309977.165 779.9118 0.62 WIL-18 784.799
2447091.815 309977.165 779.63956 0.49 WIL-18 784.799
2447091.815 309977.165 779.36404 0.5 WIL-18 784.799
2447091.815 309977.165 779.1246 0.29 WIL-18 784.799
2447091.815 309977.165 778.95076 0.04 WIL-18 784.799
2447091.815 309977.165 778.67852 0.31 WIL-18 784.799
2447091.815 309977.165 778.42268 0.25 WIL-18 784.799
2447091.815 309977.165 778.17012 -0.02 WIL-18 784.799
2447091.815 309977.165 777.90444 0.18 WIL-18 784.799
2447091.815 309977.165 777.62564 0.58 WIL-18 784.799
2447091.815 309977.165 777.39276 0.18 WIL-18 784.799
2447091.815 309977.165 777.13692 0.11 WIL-18 784.799
2447091.815 309977.165 776.91388 0.18 WIL-18 784.799
2447091.815 309977.165 776.681 -0.04 WIL-18 784.799
2447091.815 309977.165 776.4186 0.42 WIL-18 784.799
2447091.815 309977.165 776.37268 0.03 WIL-18 784.799
2447091.815 309977.165 776.12012 0.16 WIL-18 784.799
2447091.815 309977.165 775.89708 0.04 WIL-18 784.799
2447091.815 309977.165 775.63468 -0.03 WIL-18 784.799
2447091.815 309977.165 775.39196 -0.07 WIL-18 784.799
2447091.815 309977.165 775.14596 0.22 WIL-18 784.799
2447091.815 309977.165 774.87044 0.13 WIL-18 784.799
2447091.815 309977.165 774.62116 0.32 WIL-18 784.799
2447091.815 309977.165 774.4342 0.01 WIL-18 784.799
2447091.815 309977.165 774.31612 0 WIL-18 784.799
2447091.815 309977.165 774.23412 0.27 WIL-18 784.799
2447091.815 309977.165 774.13572 0.15 WIL-18 784.799
2447091.815 309977.165 774.03732 0 WIL-18 784.799
2447091.815 309977.165 773.99796 0.12 WIL-18 784.799
2447091.815 309977.165 773.77492 0.2 WIL-18 784.799
2447091.815 309977.165 773.76836 0.08 WIL-18 784.799
2447091.815 309977.165 773.68308 0.07 WIL-18 784.799
2447091.815 309977.165 773.60108 0.05 WIL-18 784.799
2447091.815 309977.165 773.33212 0.03 WIL-18 784.799
2447091.815 309977.165 773.08284 0.27 WIL-18 784.799
2447091.815 309977.165 772.83028 0.1 WIL-18 784.799
2447091.815 309977.165 772.55476 0.04 WIL-18 784.799
2447091.815 309977.165 772.30548 -0.03 WIL-18 784.799
2447091.815 309977.165 772.0726 0.6 WIL-18 784.799
2447091.815 309977.165 771.78724 -0.05 WIL-18 784.799
2447091.815 309977.165 771.53468 0.16 WIL-18 784.799
2447091.815 309977.165 771.41004 0 WIL-18 784.799
2447091.815 309977.165 771.36084 0.08 WIL-18 784.799
2447091.815 309977.165 771.0886 -0.1 WIL-18 784.799
2447091.815 309977.165 770.98036 0.02 WIL-18 784.799
2447091.815 309977.165 770.71796 -0.74 WIL-18 784.799
2447091.815 309977.165 770.45228 -0.68 WIL-18 784.799
2447091.815 309977.165 770.37684 0.01 WIL-18 784.799
2447091.815 309977.165 770.10132 -0.09 WIL-18 784.799
2447091.815 309977.165 769.8422 -0.03 WIL-18 784.799
2447091.815 309977.165 769.55356 -0.14 WIL-18 784.799
2447091.815 309977.165 769.29444 -0.57 WIL-18 784.799
2447091.815 309977.165 769.055 -0.22 WIL-18 784.799
2447091.815 309977.165 768.809 0.11 WIL-18 784.799
2447091.815 309977.165 768.53676 0.43 WIL-18 784.799
2447091.815 309977.165 768.30716 0.76 WIL-18 784.799
2447091.815 309977.165 768.0218 3.33 WIL-18 784.799
2447091.815 309977.165 767.76268 2.43 WIL-18 784.799
2447091.815 309977.165 767.52324 4.76 WIL-18 784.799
2447091.815 309977.165 767.25428 3.39 WIL-18 784.799
2447091.815 309977.165 767.00828 4.34 WIL-18 784.799
2447091.815 309977.165 766.73604 2.81 WIL-18 784.799
2447091.815 309977.165 766.4966 3.78 WIL-18 784.799
2447091.815 309977.165 766.27028 1.34 WIL-18 784.799
2447091.815 309977.165 766.01772 1.22 WIL-18 784.799
2447091.815 309977.165 765.78812 0.42 WIL-18 784.799
2447091.815 309977.165 765.53556 -0.07 WIL-18 784.799
2447091.815 309977.165 765.27316 1.37 WIL-18 784.799
2447091.815 309977.165 765.04028 1.21 WIL-18 784.799
2447091.815 309977.165 764.7582 1.45 WIL-18 784.799
2447091.815 309977.165 764.50564 1.13 WIL-18 784.799
2447091.815 309977.165 764.2334 0.24 WIL-18 784.799
2447091.815 309977.165 764.02676 0.21 WIL-18 784.799
2447091.815 309977.165 763.9382 0 WIL-18 784.799
```

```
2447091.815 309977.165 763.70532 -0.5 WIL-18 784.799
2447091.815 309977.165 763.46916 -0.5 WIL-18 784.799
2447091.815 309977.165 763.22316 -0.69 WIL-18 784.799
2447091.815 309977.165 762.96076 -0.6 WIL-18 784.799
2447091.815 309977.165 762.71804 -0.64 WIL-18 784.799
2447091.815 309977.165 762.43268 -0.46 WIL-18 784.799
2447091.815 309977.165 762.16044 0.53 WIL-18 784.799
2447091.815 309977.165 761.90132 0.29 WIL-18 784.799
2447091.815 309977.165 761.89804 0.24 WIL-18 784.799
2447159.974 309974.824 785.722 2.8 WIL-19 785.722
2447159.974 309974.824 785.48584 1.55 WIL-19 785.722
2447159.974 309974.824 785.10864 1.48 WIL-19 785.722
2447159.974 309974.824 784.8528 1.44 WIL-19 785.722
2447159.974 309974.824 784.57072 1.42 WIL-19 785.722
2447159.974 309974.824 784.34112 1.59 WIL-19 785.722
2447159.974 309974.824 784.0984 1.73 WIL-19 785.722
2447159.974 309974.824 783.8688 1.75 WIL-19 785.722
2447159.974 309974.824 783.64576 1.43 WIL-19 785.722
2447159.974 309974.824 783.36696 1.5 WIL-19 785.722
2447159.974 309974.824 783.14392 1.44 WIL-19 785.722
2447159.974 309974.824 782.89792 1.32 WIL-19 785.722
2447159.974 309974.824 782.64208 1.26 WIL-19 785.722
2447159.974 309974.824 782.41248 1.53 WIL-19 785.722
2447159.974 309974.824 782.1796 1.47 WIL-19 785.722
2447159.974 309974.824 781.94344 1.91 WIL-19 785.722
2447159.974 309974.824 781.70728 1.91 WIL-19 785.722
2447159.974 309974.824 781.48424 1.4 WIL-19 785.722
2447159.974 309974.824 781.23168 1.34 WIL-19 785.722
2447159.974 309974.824 781.00864 1.41 WIL-19 785.722
2447159.974 309974.824 780.76592 1.22 WIL-19 785.722
2447159.974 309974.824 780.51664 1.47 WIL-19 785.722
2447159.974 309974.824 780.2772 1.27 WIL-19 785.722
2447159.974 309974.824 780.00496 1.29 WIL-19 785.722
2447159.974 309974.824 779.78192 1.33 WIL-19 785.722
2447159.974 309974.824 779.55232 1.24 WIL-19 785.722
2447159.974 309974.824 779.29976 1.31 WIL-19 785.722
2447159.974 309974.824 779.07344 1.37 WIL-19 785.722
2447159.974 309974.824 778.80776 1.34 WIL-19 785.722
2447159.974 309974.824 778.5716 1.34 WIL-19 785.722
2447159.974 309974.824 778.34856 1.33 WIL-19 785.722
2447159.974 309974.824 778.28624 1.51 WIL-19 785.722
2447151.884 310048.513 787.501 2.24 WIL-20 787.501
2447151.884 310048.513 787.17628 1.29 WIL-20 787.501
2447151.884 310048.513 786.93356 1.39 WIL-20 787.501
2447151.884 310048.513 786.69084 0.92 WIL-20 787.501
2447151.884 310048.513 786.37924 0.89 WIL-20 787.501
2447151.884 310048.513 786.15292 0.94 WIL-20 787.501
2447151.884 310048.513 785.88068 0.93 WIL-20 787.501
2447151.884 310048.513 785.57236 1.12 WIL-20 787.501
2447151.884 310048.513 785.11972 0.89 WIL-20 787.501
2447151.884 310048.513 784.89668 0.81 WIL-20 787.501
2447151.884 310048.513 784.67364 1.5 WIL-20 787.501
2447151.884 310048.513 784.41124 1.05 WIL-20 787.501
2447151.884 310048.513 784.18492 0.71 WIL-20 787.501
2447151.884 310048.513 783.93564 1.02 WIL-20 787.501
2447151.884 310048.513 783.6634 0.82 WIL-20 787.501
2447151.884 310048.513 783.39444 0.88 WIL-20 787.501
2447151.884 310048.513 783.11236 0.69 WIL-20 787.501
2447151.884 310048.513 782.83356 0.84 WIL-20 787.501
2447151.884 310048.513 782.5974 0.95 WIL-20 787.501
2447151.884 310048.513 782.3678 0.9 WIL-20 787.501
2447151.884 310048.513 782.08244 0.85 WIL-20 787.501
2447151.884 310048.513 781.82332 0.73 WIL-20 787.501
2447151.884 310048.513 781.58716 0.67 WIL-20 787.501
2447151.884 310048.513 781.36412 0.63 WIL-20 787.501
2447151.884 310048.513 781.08532 0.83 WIL-20 787.501
2447151.884 310048.513 780.82292 4.13 WIL-20 787.501
2447151.884 310048.513 780.59332 4.35 WIL-20 787.501
2447151.884 310048.513 780.3178 0.84 WIL-20 787.501
2447151.884 310048.513 780.04228 0.94 WIL-20 787.501
2447151.884 310048.513 779.79628 0.83 WIL-20 787.501
2447151.884 310048.513 779.53388 0.66 WIL-20 787.501
2447151.884 310048.513 779.23868 0.71 WIL-20 787.501
2447151.884 310048.513 779.00252 0.76 WIL-20 787.501
2447151.884 310048.513 778.74996 0.68 WIL-20 787.501
2447151.884 310048.513 778.70732 0.79 WIL-20 787.501
2447154.859 310099.07 789.248 -0.5 WIL-21 789.248
2447154.859 310099.07 788.74616 -0.21 WIL-21 789.248
2447154.859 310099.07 788.50344 -0.11 WIL-21 789.248
2447154.859 310099.07 788.21152 0.13 WIL-21 789.248
2447154.859 310099.07 787.9032 -0.25 WIL-21 789.248
2447154.859 310099.07 787.55552 0.04 WIL-21 789.248
2447154.859 310099.07 787.28328 -0.61 WIL-21 789.248
2447154.859 310099.07 787.03728 -0.14 WIL-21 789.248
2447154.859 310099.07 786.78472 0.01 WIL-21 789.248
2447154.859 310099.07 786.54856 0.19 WIL-21 789.248
2447154.859 310099.07 786.30256 -0.1 WIL-21 789.248
2447154.859 310099.07 786.05 0.16 WIL-21 789.248
2447154.859 310099.07 785.82368 2.26 WIL-21 789.248
2447154.859 310099.07 785.57768 0.75 WIL-21 789.248
2447154.859 310099.07 785.30216 0.86 WIL-21 789.248
2447154.859 310099.07 785.02992 0.93 WIL-21 789.248
2447154.859 310099.07 784.75112 0.72 WIL-21 789.248
2447154.859 310099.07 784.48544 0.9 WIL-21 789.248
2447154.859 310099.07 784.22632 0.71 WIL-21 789.248
2447154.859 310099.07 783.98032 0.72 WIL-21 789.248
2447154.859 310099.07 783.72448 0.94 WIL-21 789.248
2447154.859 310099.07 783.46208 0.74 WIL-21 789.248
2447154.859 310099.07 783.18656 0.81 WIL-21 789.248
2447154.859 310099.07 782.96024 0.78 WIL-21 789.248
2447154.859 310099.07 782.66832 1.08 WIL-21 789.248
2447154.859 310099.07 782.4256 0.88 WIL-21 789.248
```

2447154.859 310099.07 782.114 0.66 WIL-21 789.248
2447154.859 310099.07 781.81224 0.65 WIL-21 789.248
2447154.859 310099.07 781.58264 0.8 WIL-21 789.248
2447154.859 310099.07 781.34648 0.69 WIL-21 789.248
2447154.859 310099.07 781.12344 0.87 WIL-21 789.248
2447154.859 310099.07 780.87416 0.8 WIL-21 789.248
2447154.859 310099.07 780.63144 0.52 WIL-21 789.248
2447154.859 310099.07 780.3756 0.78 WIL-21 789.248
2447154.859 310099.07 780.13944 0.77 WIL-21 789.248
2447154.859 310099.07 779.90656 0.74 WIL-21 789.248
2447154.859 310099.07 779.82456 0.68 WIL-21 789.248
2447205.878 310170.998 793.036 -0.86 WIL-22 793.036
2447205.878 310170.998 792.708 -1.38 WIL-22 793.036
2447205.878 310170.998 792.3964 -1.68 WIL-22 793.036
2447205.878 310170.998 792.16024 -1.42 WIL-22 793.036
2447205.878 310170.998 791.92736 -1.4 WIL-22 793.036
2447205.878 310170.998 791.6748 -1.48 WIL-22 793.036
2447205.878 310170.998 791.4452 -1.57 WIL-22 793.036
2447205.878 310170.998 791.20576 -1.18 WIL-22 793.036
2447205.878 310170.998 790.94992 -1.34 WIL-22 793.036
2447205.878 310170.998 790.67768 -1.52 WIL-22 793.036
2447205.878 310170.998 790.45464 -1.35 WIL-22 793.036
2447205.878 310170.998 790.2316 -1.11 WIL-22 793.036
2447205.878 310170.998 789.94296 -1 WIL-22 793.036
2447205.878 310170.998 789.674 -1.43 WIL-22 793.036
2447205.878 310170.998 789.43784 -1.61 WIL-22 793.036
2447205.878 310170.998 789.40176 -1.5 WIL-22 793.036
2447169.563 310241.085 792.40916 3.11 WIL-23 792.419
2447169.563 310241.085 792.02868 0.95 WIL-23 792.419
2447169.563 310241.085 791.76956 1.22 WIL-23 792.419
2447169.563 310241.085 791.3202 1 WIL-23 792.419
2447169.563 310241.085 790.88396 0.9 WIL-23 792.419
2447169.563 310241.085 790.55596 0.75 WIL-23 792.419
2447169.563 310241.085 790.11644 0.81 WIL-23 792.419
2447169.563 310241.085 789.82124 0.8 WIL-23 792.419
2447169.563 310241.085 789.4834 1.02 WIL-23 792.419
2447169.563 310241.085 789.2538 0.95 WIL-23 792.419
2447169.563 310241.085 789.02748 0.81 WIL-23 792.419
2447169.563 310241.085 788.80444 0.82 WIL-23 792.419
2447169.563 310241.085 788.5486 0.74 WIL-23 792.419
2447169.563 310241.085 788.27308 0.78 WIL-23 792.419
2447169.563 310241.085 788.02708 0.72 WIL-23 792.419
2447169.563 310241.085 787.73844 0.92 WIL-23 792.419
2447169.563 310241.085 787.47276 0.81 WIL-23 792.419
2447169.563 310241.085 787.21364 0.89 WIL-23 792.419
2447169.563 310241.085 786.93156 0.76 WIL-23 792.419
2447169.563 310241.085 786.6626 0.98 WIL-23 792.419
2447169.563 310241.085 786.41988 0.72 WIL-23 792.419
2447169.563 310241.085 786.19684 0.77 WIL-23 792.419
2447169.563 310241.085 785.96396 0.77 WIL-23 792.419
2447169.563 310241.085 785.72124 0.89 WIL-23 792.419
2447169.563 310241.085 785.47852 0.84 WIL-23 792.419
2447169.563 310241.085 785.2358 0.81 WIL-23 792.419
2447169.563 310241.085 784.96356 0.71 WIL-23 792.419
2447169.563 310241.085 784.73396 0.77 WIL-23 792.419
2447169.563 310241.085 784.45844 0.88 WIL-23 792.419
2447169.563 310241.085 784.19276 0.71 WIL-23 792.419
2447169.563 310241.085 783.92052 0.77 WIL-23 792.419
2447169.563 310241.085 783.65156 0.76 WIL-23 792.419
2447169.563 310241.085 783.42196 0.65 WIL-23 792.419
2447169.563 310241.085 783.13988 0.68 WIL-23 792.419
2447169.563 310241.085 782.907 0.71 WIL-23 792.419
2447169.563 310241.085 782.62164 0.77 WIL-23 792.419
2447169.563 310241.085 782.3494 0.67 WIL-23 792.419
2447169.563 310241.085 782.09356 0.68 WIL-23 792.419
2447169.563 310241.085 781.86724 0.58 WIL-23 792.419
2447169.563 310241.085 781.58188 0.55 WIL-23 792.419
2447169.563 310241.085 781.30308 0.68 WIL-23 792.419
2447169.563 310241.085 781.0538 0.54 WIL-23 792.419
2447169.563 310241.085 780.77172 0.55 WIL-23 792.419
2447169.563 310241.085 780.49948 0.75 WIL-23 792.419
2447169.563 310241.085 780.22396 0.63 WIL-23 792.419
2447169.563 310241.085 779.99764 0.73 WIL-23 792.419
2447169.563 310241.085 779.73852 0.61 WIL-23 792.419
2447169.563 310241.085 779.48596 0.68 WIL-23 792.419
2447169.563 310241.085 779.2334 0.66 WIL-23 792.419
2447169.563 310241.085 778.98412 0.54 WIL-23 792.419
2447169.563 310241.085 778.7578 0.6 WIL-23 792.419
2447109.983 310289.823 790.725 4.5 WIL-24 790.725
2447109.983 310289.823 790.39372 0.74 WIL-24 790.725
2447109.983 310289.823 790.15428 0.72 WIL-24 790.725
2447109.983 310289.823 789.88204 0.56 WIL-24 790.725
2447109.983 310289.823 789.495 0.54 WIL-24 790.725
2447109.983 310289.823 789.18668 0.74 WIL-24 790.725
2447109.983 310289.823 788.5602 1.52 WIL-24 790.725
2447109.983 310289.823 788.30436 2.86 WIL-24 790.725
2447109.983 310289.823 788.0518 2.05 WIL-24 790.725
2447109.983 310289.823 787.82876 0.61 WIL-24 790.725
2447109.983 310289.823 787.56964 0.56 WIL-24 790.725
2447109.983 310289.823 787.3138 0.42 WIL-24 790.725
2447109.983 310289.823 787.08092 1.15 WIL-24 790.725
2447109.983 310289.823 786.83492 0.79 WIL-24 790.725
2447109.983 310289.823 786.5758 0.8 WIL-24 790.725
2447109.983 310289.823 786.30684 0.61 WIL-24 790.725
2447109.983 310289.823 786.0674 0.83 WIL-24 790.725
2447109.983 310289.823 785.83124 0.56 WIL-24 790.725
2447109.983 310289.823 785.53276 0.72 WIL-24 790.725
2447109.983 310289.823 785.29004 0.57 WIL-24 790.725
2447109.983 310289.823 785.03092 0.61 WIL-24 790.725
2447109.983 310289.823 784.8046 0.79 WIL-24 790.725
2447109.983 310289.823 784.51596 0.64 WIL-24 790.725
2447109.983 310289.823 784.25684 0.68 WIL-24 790.725

```
2447109.983 310289.823 783.9682 0.42 WIL-24 790.725
2447109.983 310289.823 783.71564 0.39 WIL-24 790.725
2447109.983 310289.823 783.4598 0.48 WIL-24 790.725
2447109.983 310289.823 783.21052 0.47 WIL-24 790.725
2447109.983 310289.823 782.94812 0.63 WIL-24 790.725
2447109.983 310289.823 782.6562 0.73 WIL-24 790.725
2447109.983 310289.823 782.4266 0.56 WIL-24 790.725
2447109.983 310289.823 782.15764 0.56 WIL-24 790.725
2447109.983 310289.823 781.86572 0.79 WIL-24 790.725
2447109.983 310289.823 781.57708 0.7 WIL-24 790.725
2447109.983 310289.823 781.2786 0.68 WIL-24 790.725
2447109.983 310289.823 781.01948 0.79 WIL-24 790.725
2447109.983 310289.823 780.78004 0.82 WIL-24 790.725
2447109.983 310289.823 780.50124 0.78 WIL-24 790.725
2447109.983 310289.823 780.27164 0.78 WIL-24 790.725
2447109.983 310289.823 780.00268 0.77 WIL-24 790.725
2447109.983 310289.823 779.7698 0.9 WIL-24 790.725
2447109.983 310289.823 779.51068 0.72 WIL-24 790.725
2447109.983 310289.823 779.28108 0.79 WIL-24 790.725
2447109.983 310289.823 779.02852 0.86 WIL-24 790.725
2447109.983 310289.823 778.8022 0.92 WIL-24 790.725
2447109.983 310289.823 778.4906 0.66 WIL-24 790.725
2447109.983 310289.823 778.23804 0.69 WIL-24 790.725
2447109.983 310289.823 777.9822 0.7 WIL-24 790.725
2447109.983 310289.823 777.69028 0.8 WIL-24 790.725
2447109.983 310289.823 777.43116 0.78 WIL-24 790.725
2447109.983 310289.823 777.20812 0.87 WIL-24 790.725
2447109.983 310289.823 776.97196 0.8 WIL-24 790.725
2447109.983 310289.823 776.6866 0.6 WIL-24 790.725
2447109.983 310289.823 776.46356 0.85 WIL-24 790.725
2447109.983 310289.823 776.24052 0.89 WIL-24 790.725
2447109.983 310289.823 776.02404 0.78 WIL-24 790.725
2447025.36 310363.235 793.68 0.24 WIL-25 793.68
2447025.36 310363.235 793.45696 -0.66 WIL-25 793.68
2447025.36 310363.235 793.1388 -0.46 WIL-25 793.68
2447025.36 310363.235 792.82392 -0.69 WIL-25 793.68
2447025.36 310363.235 792.5484 -0.5 WIL-25 793.68
2447025.36 310363.235 792.29912 -0.54 WIL-25 793.68
2447025.36 310363.235 791.91208 -0.35 WIL-25 793.68
2447025.36 310363.235 791.68904 -0.28 WIL-25 793.68
2447025.36 310363.235 791.61688 0.11 WIL-25 793.68
2447025.36 310363.235 791.29544 -0.45 WIL-25 793.68
2447025.36 310363.235 791.06912 -0.41 WIL-25 793.68
2447025.36 310363.235 790.81984 -0.45 WIL-25 793.68
2447025.36 310363.235 790.57384 -0.27 WIL-25 793.68
2447025.36 310363.235 790.31144 -0.24 WIL-25 793.68
2447025.36 310363.235 790.08184 -0.35 WIL-25 793.68
2447025.36 310363.235 789.85552 -0.21 WIL-25 793.68
2447025.36 310363.235 789.62592 -0.52 WIL-25 793.68
2447025.36 310363.235 789.41272 0 WIL-25 793.68
2447025.36 310363.235 789.17984 -0.48 WIL-25 793.68
2447025.36 310363.235 788.92728 -0.34 WIL-25 793.68
2447025.36 310363.235 788.678 -0.28 WIL-25 793.68
2447025.36 310363.235 788.3992 -0.45 WIL-25 793.68
2447025.36 310363.235 788.17616 -0.37 WIL-25 793.68
2447025.36 310363.235 787.90064 -0.1 WIL-25 793.68
2447025.36 310363.235 787.63496 -0.58 WIL-25 793.68
2447025.36 310363.235 787.33648 -0.39 WIL-25 793.68
2447025.36 310363.235 787.05112 -0.29 WIL-25 793.68
2447025.36 310363.235 786.792 -0.32 WIL-25 793.68
2447025.36 310363.235 786.50336 -0.12 WIL-25 793.68
2447025.36 310363.235 786.45088 0.24 WIL-25 793.68
2447025.36 310363.235 786.22128 0.35 WIL-25 793.68
2447025.36 310363.235 785.95232 1.61 WIL-25 793.68
2447025.36 310363.235 785.71944 6.15 WIL-25 793.68
2447025.36 310363.235 785.47344 31.74 WIL-25 793.68
2447025.36 310363.235 785.24384 13.39 WIL-25 793.68
2447025.36 310363.235 784.98472 25.36 WIL-25 793.68
2447025.36 310363.235 784.74856 34.25 WIL-25 793.68
2447025.36 310363.235 784.49928 21.98 WIL-25 793.68
2447025.36 310363.235 784.26968 48.98 WIL-25 793.68
2447025.36 310363.235 784.03024 18.74 WIL-25 793.68
2447025.36 310363.235 783.78752 0.23 WIL-25 793.68
2447025.36 310363.235 783.56448 27.34 WIL-25 793.68
2447025.36 310363.235 783.33488 3.76 WIL-25 793.68
2447025.36 310363.235 783.3316 3.22 WIL-25 793.68
2447194.188 310331.792 794.861 -0.17 WIL-26 794.861
2447194.188 310331.792 794.59532 -1.02 WIL-26 794.861
2447194.188 310331.792 794.29684 -0.96 WIL-26 794.861
2447194.188 310331.792 794.07052 -1.01 WIL-26 794.861
2447194.188 310331.792 793.77204 -0.92 WIL-26 794.861
2447194.188 310331.792 793.53588 -0.67 WIL-26 794.861
2447194.188 310331.792 793.26036 -0.81 WIL-26 794.861
2447194.188 310331.792 793.00452 -0.96 WIL-26 794.861
2447194.188 310331.792 792.7454 -0.9 WIL-26 794.861
2447194.188 310331.792 792.48628 -0.86 WIL-26 794.861
2447194.188 310331.792 792.1878 -0.97 WIL-26 794.861
2447194.188 310331.792 791.9418 -0.91 WIL-26 794.861
2447194.188 310331.792 791.69908 -1 WIL-26 794.861
2447194.188 310331.792 791.45308 -0.98 WIL-26 794.861
2447194.188 310331.792 791.4006 -0.97 WIL-26 794.861
2447273.739 310352.885 795.3 1.08 WIL-27 795.3
2447273.739 310352.885 795.27048 0.31 WIL-27 795.3
2447273.739 310352.885 795.17536 0.26 WIL-27 795.3
2447273.739 310352.885 794.89984 0.04 WIL-27 795.3
2447273.739 310352.885 794.63744 0.06 WIL-27 795.3
2447273.739 310352.885 794.34224 0.26 WIL-27 795.3
2447273.739 310352.885 793.96176 0.38 WIL-27 795.3
2447273.739 310352.885 793.69936 0.3 WIL-27 795.3
2447273.739 310352.885 793.414 0.82 WIL-27 795.3
2447273.739 310352.885 793.12208 0.29 WIL-27 795.3
2447273.739 310352.885 792.89576 0.28 WIL-27 795.3
```

```
2447273.739 310352.885 792.6432 0.11 WIL-27 795.3
2447273.739 310352.885 792.37752 0.29 WIL-27 795.3
2447273.739 310352.885 792.102 0.16 WIL-27 795.3
2447273.739 310352.885 791.84288 0.29 WIL-27 795.3
2447273.739 310352.885 791.58704 0.28 WIL-27 795.3
2447273.739 310352.885 791.40008 0.03 WIL-27 795.3
2447273.739 310352.885 791.25248 0.02 WIL-27 795.3
2447273.739 310352.885 790.9868 -0.02 WIL-27 795.3
2447273.739 310352.885 790.70144 0.27 WIL-27 795.3
2447273.739 310352.885 790.43904 0.21 WIL-27 795.3
2447273.739 310352.885 790.19632 0.11 WIL-27 795.3
2447273.739 310352.885 789.93392 0.23 WIL-27 795.3
2447273.739 310352.885 789.67152 -0.01 WIL-27 795.3
2447273.739 310352.885 789.42552 0.06 WIL-27 795.3
2447273.739 310352.885 789.17296 0.15 WIL-27 795.3
2447273.739 310352.885 789.04832 0.01 WIL-27 795.3
2447273.739 310352.885 788.79248 0.06 WIL-27 795.3
2447273.739 310352.885 788.5432 0 WIL-27 795.3
2447273.739 310352.885 788.49728 0.02 WIL-27 795.3
2447273.739 310352.885 788.26768 0.09 WIL-27 795.3
2447273.739 310352.885 788.01512 0.17 WIL-27 795.3
2447273.739 310352.885 787.76256 0.13 WIL-27 795.3
2447273.739 310352.885 787.45752 0.03 WIL-27 795.3
2447273.739 310352.885 787.19184 0.17 WIL-27 795.3
2447273.739 310352.885 786.89008 0.1 WIL-27 795.3
2447273.739 310352.885 786.62112 -0.07 WIL-27 795.3
2447273.739 310352.885 786.38824 -0.09 WIL-27 795.3
2447273.739 310352.885 786.15536 -0.07 WIL-27 795.3
2447273.739 310352.885 785.89296 -0.03 WIL-27 795.3
2447273.739 310352.885 785.62728 0.08 WIL-27 795.3
2447273.739 310352.885 785.46328 0 WIL-27 795.3
2447273.739 310352.885 785.19104 0.08 WIL-27 795.3
2447273.739 310352.885 784.95816 -0.12 WIL-27 795.3
2447273.739 310352.885 784.64984 -0.01 WIL-27 795.3
2447273.739 310352.885 784.3776 -0.06 WIL-27 795.3
2447273.739 310352.885 784.07912 0.01 WIL-27 795.3
2447273.739 310352.885 783.82656 -0.06 WIL-27 795.3
2447273.739 310352.885 783.5904 0.01 WIL-27 795.3
2447273.739 310352.885 783.47232 0.14 WIL-27 795.3
2447349.566 310368.679 796.291 2.24 WIL-28 796.291
2447349.566 310368.679 796.02204 0.73 WIL-28 796.291
2447349.566 310368.679 795.77604 0.63 WIL-28 796.291
2447349.566 310368.679 795.54316 0.56 WIL-28 796.291
2447349.566 310368.679 795.26436 0.48 WIL-28 796.291
2447349.566 310368.679 794.92324 0.68 WIL-28 796.291
2447349.566 310368.679 794.67396 1.05 WIL-28 796.291
2447349.566 310368.679 794.41156 1.59 WIL-28 796.291
2447349.566 310368.679 794.16884 0.85 WIL-28 796.291
2447349.566 310368.679 793.9458 0.65 WIL-28 796.291
2447349.566 310368.679 793.70964 1.76 WIL-28 796.291
2447349.566 310368.679 793.4702 1.02 WIL-28 796.291
2447349.566 310368.679 793.23732 0.82 WIL-28 796.291
2447349.566 310368.679 792.9782 0.67 WIL-28 796.291
2447349.566 310368.679 792.75188 14.86 WIL-28 796.291
2447349.566 310368.679 792.5026 23.93 WIL-28 796.291
2447349.566 310368.679 792.27628 21.45 WIL-28 796.291
2447349.566 310368.679 791.99092 19.54 WIL-28 796.291
2447349.566 310368.679 791.75476 10.94 WIL-28 796.291
2447349.566 310368.679 791.49892 7.36 WIL-28 796.291
2447349.566 310368.679 791.26604 3.9 WIL-28 796.291
2447349.566 310368.679 790.96428 2.84 WIL-28 796.291
2447349.566 310368.679 790.7314 4.9 WIL-28 796.291
2447349.566 310368.679 790.44604 3.25 WIL-28 796.291
2447349.566 310368.679 790.20332 2.3 WIL-28 796.291
2447349.566 310368.679 789.9114 1.48 WIL-28 796.291
2447349.566 310368.679 789.68836 1.35 WIL-28 796.291
2447349.566 310368.679 789.44236 0.43 WIL-28 796.291
2447349.566 310368.679 789.20948 0.63 WIL-28 796.291
2447349.566 310368.679 788.94052 0.47 WIL-28 796.291
2447349.566 310368.679 788.6978 0.41 WIL-28 796.291
2447349.566 310368.679 788.45836 0.46 WIL-28 796.291
2447349.566 310368.679 788.23204 0.59 WIL-28 796.291
2447349.566 310368.679 787.9926 0.28 WIL-28 796.291
2447349.566 310368.679 787.74332 0.43 WIL-28 796.291
2447349.566 310368.679 787.4842 0.44 WIL-28 796.291
2447349.566 310368.679 787.24148 0.41 WIL-28 796.291
2447349.566 310368.679 786.94628 0.41 WIL-28 796.291
2447349.566 310368.679 786.70356 0.46 WIL-28 796.291
2447349.566 310368.679 786.4674 0.48 WIL-28 796.291
2447349.566 310368.679 786.17876 0.41 WIL-28 796.291
2447349.566 310368.679 785.9426 0.4 WIL-28 796.291
2447349.566 310368.679 785.86716 0.34 WIL-28 796.291
2447375.689 310409.04 794.521 1.16 WIL-29 794.521
2447375.689 310409.04 794.275 -0.1 WIL-29 794.521
2447375.689 310409.04 793.947 -0.06 WIL-29 794.521
2447375.689 310409.04 793.52716 0.14 WIL-29 794.521
2447375.689 310409.04 793.16964 0.18 WIL-29 794.521
2447375.689 310409.04 792.9302 0.37 WIL-29 794.521
2447375.689 310409.04 792.69732 0.05 WIL-29 794.521
2447375.689 310409.04 792.4546 3.43 WIL-29 794.521
2447375.689 310409.04 792.225 3.06 WIL-29 794.521
2447375.689 310409.04 791.98884 4.04 WIL-29 794.521
2447375.689 310409.04 791.733 5.2 WIL-29 794.521
2447375.689 310409.04 791.5034 2.96 WIL-29 794.521
2447375.689 310409.04 791.26396 4.17 WIL-29 794.521
2447375.689 310409.04 791.00812 5.69 WIL-29 794.521
2447375.689 310409.04 790.74244 6.29 WIL-29 794.521
2447375.689 310409.04 790.50628 3.56 WIL-29 794.521
2447375.689 310409.04 790.24388 6.4 WIL-29 794.521
2447375.689 310409.04 789.95196 7.47 WIL-29 794.521
2447375.689 310409.04 789.66988 23.58 WIL-29 794.521
2447375.689 310409.04 789.437 29.58 WIL-29 794.521
```

```
2447375.689 310409.04 789.17132 32.4 WIL-29 794.521
2447375.689 310409.04 788.88924 17.75 WIL-29 794.521
2447375.689 310409.04 788.6498 30.66 WIL-29 794.521
2447375.689 310409.04 788.35788 25.67 WIL-29 794.521
2447375.689 310409.04 788.05612 25.28 WIL-29 794.521
2447375.689 310409.04 787.77404 16.46 WIL-29 794.521
2447375.689 310409.04 787.53788 18.14 WIL-29 794.521
2447375.689 310409.04 787.30172 17.34 WIL-29 794.521
2447375.689 310409.04 787.06556 17.7 WIL-29 794.521
2447375.689 310409.04 786.79004 18.58 WIL-29 794.521
2447375.689 310409.04 786.5506 19.14 WIL-29 794.521
2447375.689 310409.04 786.31772 16 WIL-29 794.521
2447375.689 310409.04 786.08156 18.06 WIL-29 794.521
2447375.689 310409.04 785.84868 11.69 WIL-29 794.521
2447375.689 310409.04 785.59612 8.49 WIL-29 794.521
2447375.689 310409.04 785.34684 15.56 WIL-29 794.521
2447375.689 310409.04 785.08116 9.57 WIL-29 794.521
2447375.689 310409.04 784.83188 7.07 WIL-29 794.521
2447375.689 310409.04 784.55308 3.1 WIL-29 794.521
2447375.689 310409.04 784.29724 0.54 WIL-29 794.521
2447375.689 310409.04 784.0414 0 WIL-29 794.521
2447375.689 310409.04 783.74292 -0.1 WIL-29 794.521
2447375.689 310409.04 783.45428 -0.13 WIL-29 794.521
2447375.689 310409.04 783.17548 -0.18 WIL-29 794.521
2447375.689 310409.04 782.88028 -0.59 WIL-29 794.521
2447375.689 310409.04 782.63756 -0.48 WIL-29 794.521
2447375.689 310409.04 782.44076 -0.42 WIL-29 794.521
2447418.825 310543.052 798.704 0.28 WIL-30 798.704
2447418.825 310543.052 798.47112 0.84 WIL-30 798.704
2447418.825 310543.052 798.20872 0.69 WIL-30 798.704
2447418.825 310543.052 797.96928 0.64 WIL-30 798.704
2447418.825 310543.052 797.73312 0.45 WIL-30 798.704
2447418.825 310543.052 797.49696 0.58 WIL-30 798.704
2447418.825 310543.052 797.25096 0.68 WIL-30 798.704
2447418.825 310543.052 797.00168 0.69 WIL-30 798.704
2447418.825 310543.052 796.76552 0.9 WIL-30 798.704
2447418.825 310543.052 796.48016 0.92 WIL-30 798.704
2447418.825 310543.052 796.20136 0.77 WIL-30 798.704
2447418.825 310543.052 795.95864 1.35 WIL-30 798.704
2447418.825 310543.052 795.69296 0.89 WIL-30 798.704
2447418.825 310543.052 795.46008 0.88 WIL-30 798.704
2447418.825 310543.052 795.2272 2.05 WIL-30 798.704
2447418.825 310543.052 794.97136 1.91 WIL-30 798.704
2447418.825 310543.052 794.72536 9.49 WIL-30 798.704
2447418.825 310543.052 794.50232 9.27 WIL-30 798.704
2447418.825 310543.052 794.2432 10.27 WIL-30 798.704
2447418.825 310543.052 793.97752 21.54 WIL-30 798.704
2447418.825 310543.052 793.75448 15.01 WIL-30 798.704
2447418.825 310543.052 793.53144 14.31 WIL-30 798.704
2447418.825 310543.052 793.30512 54.94 WIL-30 798.704
2447418.825 310543.052 793.0788 21.42 WIL-30 798.704
2447418.825 310543.052 792.82624 110.36 WIL-30 798.704
2447418.825 310543.052 792.59008 88.04 WIL-30 798.704
2447418.825 310543.052 792.33096 28.83 WIL-30 798.704
2447418.825 310543.052 792.08824 10.74 WIL-30 798.704
2447418.825 310543.052 791.8652 2.27 WIL-30 798.704
2447418.825 310543.052 791.57328 1.19 WIL-30 798.704
2447418.825 310543.052 791.28792 0.85 WIL-30 798.704
2447418.825 310543.052 791.0616 0.64 WIL-30 798.704
2447418.825 310543.052 790.83528 0.86 WIL-30 798.704
2447418.825 310543.052 790.54008 1.26 WIL-30 798.704
2447418.825 310543.052 790.31048 0.44 WIL-30 798.704
2447418.825 310543.052 790.0448 0.76 WIL-30 798.704
2447418.825 310543.052 789.78896 0.66 WIL-30 798.704
2447418.825 310543.052 789.53968 0.81 WIL-30 798.704
2447418.825 310543.052 789.30352 1.1 WIL-30 798.704
2447418.825 310543.052 789.06736 1.21 WIL-30 798.704
2447418.825 310543.052 788.81152 1.2 WIL-30 798.704
2447418.825 310543.052 788.536 0.82 WIL-30 798.704
2447418.825 310543.052 788.24408 0.69 WIL-30 798.704
2447418.825 310543.052 788.01776 1.19 WIL-30 798.704
2447418.825 310543.052 787.7488 0.73 WIL-30 798.704
2447418.825 310543.052 787.47984 0.95 WIL-30 798.704
2447418.825 310543.052 787.2404 0.85 WIL-30 798.704
2447418.825 310543.052 787.10592 0.33 WIL-30 798.704
2447282.462 310264.308 794.813 4.66 WIL-31 794.813
2447282.462 310264.308 794.48172 -0.43 WIL-31 794.813
2447282.462 310264.308 794.21932 -1.22 WIL-31 794.813
2447282.462 310264.308 793.86836 -0.81 WIL-31 794.813
2447282.462 310264.308 793.54364 -1.71 WIL-31 794.813
2447282.462 310264.308 793.28452 -1.05 WIL-31 794.813
2447282.462 310264.308 792.90404 -0.99 WIL-31 794.813
2447282.462 310264.308 792.67772 -1.13 WIL-31 794.813
2447282.462 310264.308 792.45468 -1.11 WIL-31 794.813
2447282.462 310264.308 792.18572 -0.55 WIL-31 794.813
2447282.462 310264.308 791.92332 -0.45 WIL-31 794.813
2447282.462 310264.308 791.67732 -0.54 WIL-31 794.813
2447282.462 310264.308 791.41492 -1.19 WIL-31 794.813
2447282.462 310264.308 791.13284 -0.36 WIL-31 794.813
2447282.462 310264.308 790.86716 -0.82 WIL-31 794.813
2447282.462 310264.308 790.62772 -0.15 WIL-31 794.813
2447282.462 310264.308 790.40468 -0.16 WIL-31 794.813
2447282.462 310264.308 790.1718 -0.28 WIL-31 794.813
2447282.462 310264.308 789.90612 -0.03 WIL-31 794.813
2447282.462 310264.308 789.63388 -0.23 WIL-31 794.813
2447282.462 310264.308 789.39772 -0.2 WIL-31 794.813
2447282.462 310264.308 789.1386 -0.29 WIL-31 794.813
2447282.462 310264.308 788.88932 -0.69 WIL-31 794.813
2447282.462 310264.308 788.6466 -0.84 WIL-31 794.813
2447282.462 310264.308 788.42356 -0.43 WIL-31 794.813
2447282.462 310264.308 788.171 -1.05 WIL-31 794.813
2447282.462 310264.308 787.91516 -0.89 WIL-31 794.813
```

```
2447282.462 310264.308 787.64292 -0.05 WIL-31 794.813
2447282.462 310264.308 787.41004 -0.7 WIL-31 794.813
2447282.462 310264.308 787.17388 -0.27 WIL-31 794.813
2447282.462 310264.308 786.86556 -0.67 WIL-31 794.813
2447282.462 310264.308 786.59004 -0.97 WIL-31 794.813
2447282.462 310264.308 786.31124 -0.83 WIL-31 794.813
2447282.462 310264.308 786.0718 -0.65 WIL-31 794.813
2447282.462 310264.308 785.8258 -0.77 WIL-31 794.813
2447282.462 310264.308 785.56012 -1.65 WIL-31 794.813
2447282.462 310264.308 785.33708 -1.18 WIL-31 794.813
2447282.462 310264.308 785.07796 -0.61 WIL-31 794.813
2447282.462 310264.308 784.80572 -0.8 WIL-31 794.813
2447282.462 310264.308 784.55972 -0.84 WIL-31 794.813
2447282.462 310264.308 784.31044 -0.77 WIL-31 794.813
2447282.462 310264.308 784.07428 -0.62 WIL-31 794.813
2447282.462 310264.308 783.81188 -0.95 WIL-31 794.813
2447282.462 310264.308 783.54948 -0.91 WIL-31 794.813
2447282.462 310264.308 783.27396 -0.92 WIL-31 794.813
2447282.462 310264.308 783.01484 -0.7 WIL-31 794.813
2447282.462 310264.308 782.94924 -0.75 WIL-31 794.813
2447406.588 310372.163 793.234 2.19 WIL-32 793.234
2447406.588 310372.163 792.6928 0.89 WIL-32 793.234
2447406.588 310372.163 792.45008 1.14 WIL-32 793.234
2447406.588 310372.163 792.20408 1.22 WIL-32 793.234
2447406.588 310372.163 791.89248 0.96 WIL-32 793.234
2447406.588 310372.163 791.60712 1.13 WIL-32 793.234
2447406.588 310372.163 791.25288 0.76 WIL-32 793.234
2447406.588 310372.163 791.01016 0.91 WIL-32 793.234
2447406.588 310372.163 790.76416 2.96 WIL-32 793.234
2447406.588 310372.163 790.53456 3.37 WIL-32 793.234
2447406.588 310372.163 790.30824 5.71 WIL-32 793.234
2447406.588 310372.163 790.05568 35.69 WIL-32 793.234
2447406.588 310372.163 789.82936 98.1 WIL-32 793.234
2447406.588 310372.163 789.5604 56.01 WIL-32 793.234
2447406.588 310372.163 789.32096 48.55 WIL-32 793.234
2447406.588 310372.163 789.04872 45.05 WIL-32 793.234
2447406.588 310372.163 788.806 25.5 WIL-32 793.234
2447406.588 310372.163 788.55672 46.85 WIL-32 793.234
2447406.588 310372.163 788.32056 38.75 WIL-32 793.234
2447406.588 310372.163 788.04176 33.01 WIL-32 793.234
2447406.588 310372.163 787.81544 36.69 WIL-32 793.234
2447406.588 310372.163 787.56944 36.26 WIL-32 793.234
2447406.588 310372.163 787.32672 41.49 WIL-32 793.234
2447406.588 310372.163 787.09712 36.66 WIL-32 793.234
2447406.588 310372.163 786.80848 33.88 WIL-32 793.234
2447406.588 310372.163 786.52312 38.74 WIL-32 793.234
2447406.588 310372.163 786.30008 31.21 WIL-32 793.234
2447406.588 310372.163 786.01472 27.93 WIL-32 793.234
2447406.588 310372.163 785.74248 24.93 WIL-32 793.234
2447406.588 310372.163 785.48336 24.33 WIL-32 793.234
2447406.588 310372.163 785.23736 25.9 WIL-32 793.234
2447406.588 310372.163 785.01432 22.06 WIL-32 793.234
2447406.588 310372.163 784.99464 28.9 WIL-32 793.234
2447443.715 310334.832 790.81 2.56 WIL-33 790.81
2447443.715 310334.832 790.39016 2.22 WIL-33 790.81
2447443.715 310334.832 789.75712 1.5 WIL-33 790.81
2447443.715 310334.832 789.42256 1.43 WIL-33 790.81
2447443.715 310334.832 789.18312 0.73 WIL-33 790.81
2447443.715 310334.832 788.92072 1.38 WIL-33 790.81
2447443.715 310334.832 788.63864 1.47 WIL-33 790.81
2447443.715 310334.832 788.37952 2.6 WIL-33 790.81
2447443.715 310334.832 788.14992 3.31 WIL-33 790.81
2447443.715 310334.832 787.90064 4.29 WIL-33 790.81
2447443.715 310334.832 787.62184 5.35 WIL-33 790.81
2447443.715 310334.832 787.3824 4.99 WIL-33 790.81
2447443.715 310334.832 787.11344 3.72 WIL-33 790.81
2447443.715 310334.832 786.83792 4.23 WIL-33 790.81
2447443.715 310334.832 786.55256 5.97 WIL-33 790.81
2447443.715 310334.832 786.2672 11.37 WIL-33 790.81
2447443.715 310334.832 786.04088 16.63 WIL-33 790.81
2447443.715 310334.832 785.7916 12.41 WIL-33 790.81
2447443.715 310334.832 785.56856 14.98 WIL-33 790.81
2447443.715 310334.832 785.33568 19.45 WIL-33 790.81
2447443.715 310334.832 785.0864 17.39 WIL-33 790.81
2447443.715 310334.832 784.85352 26.91 WIL-33 790.81
2447443.715 310334.832 784.58784 17.43 WIL-33 790.81
2447443.715 310334.832 784.35168 24.63 WIL-33 790.81
2447443.715 310334.832 784.04664 11.31 WIL-33 790.81
2447443.715 310334.832 783.77768 20.35 WIL-33 790.81
2447443.715 310334.832 783.55464 27.99 WIL-33 790.81
2447443.715 310334.832 783.26272 10.55 WIL-33 790.81
2447443.715 310334.832 783.01016 10.25 WIL-33 790.81
2447443.715 310334.832 782.76416 8.32 WIL-33 790.81
2447443.715 310334.832 782.528 33.06 WIL-33 790.81
2447443.715 310334.832 782.27216 15.39 WIL-33 790.81
2447443.715 310334.832 781.98024 9.44 WIL-33 790.81
2447443.715 310334.832 781.68832 9.96 WIL-33 790.81
2447443.715 310334.832 781.4128 6.86 WIL-33 790.81
2447443.715 310334.832 781.17008 39.9 WIL-33 790.81
2447443.715 310334.832 780.89456 6.55 WIL-33 790.81
2447443.715 310334.832 780.63872 24.02 WIL-33 790.81
2447443.715 310334.832 780.396 33.57 WIL-33 790.81
2447443.715 310334.832 780.12048 24.3 WIL-33 790.81
2447443.715 310334.832 779.87776 26.67 WIL-33 790.81
2447443.715 310334.832 779.63832 14.09 WIL-33 790.81
2447443.715 310334.832 779.39232 37.11 WIL-33 790.81
2447443.715 310334.832 779.09056 15.61 WIL-33 790.81
2447443.715 310334.832 778.8216 28.12 WIL-33 790.81
2447443.715 310334.832 778.55592 44.37 WIL-33 790.81
2447443.715 310334.832 778.30336 22.63 WIL-33 790.81
2447443.715 310334.832 778.04096 9.29 WIL-33 790.81
2447443.715 310334.832 777.76872 16.85 WIL-33 790.81
```

```
2447443.715 310334.832 777.53912 15.69 WIL-33 790.81
2447443.715 310334.832 777.25048 3.61 WIL-33 790.81
2447443.715 310334.832 777.00448 1.61 WIL-33 790.81
2447443.715 310334.832 776.69944 0.74 WIL-33 790.81
2447443.715 310334.832 776.4108 3.06 WIL-33 790.81
2447443.715 310334.832 776.10904 2.25 WIL-33 790.81
2447443.715 310334.832 775.84336 0.58 WIL-33 790.81
2447443.715 310334.832 775.62032 0.79 WIL-33 790.81
2447443.715 310334.832 775.38088 1.77 WIL-33 790.81
2447443.715 310334.832 775.12832 1.79 WIL-33 790.81
2447443.715 310334.832 774.82 2.51 WIL-33 790.81
2447443.715 310334.832 774.50184 0.69 WIL-33 790.81
2447443.715 310334.832 774.19352 1.66 WIL-33 790.81
2447443.715 310334.832 773.95408 4.27 WIL-33 790.81
2447443.715 310334.832 773.672 6.53 WIL-33 790.81
2447443.715 310334.832 773.40632 3.09 WIL-33 790.81
2447443.715 310334.832 773.16688 2.24 WIL-33 790.81
2447443.715 310334.832 772.94384 2.13 WIL-33 790.81
2447443.715 310334.832 772.71752 2.61 WIL-33 790.81
2447443.715 310334.832 772.38952 2.71 WIL-33 790.81
2447443.715 310334.832 772.10088 5.04 WIL-33 790.81
2447443.715 310334.832 771.85488 2.72 WIL-33 790.81
2447443.715 310334.832 771.6056 0.9 WIL-33 790.81
2447443.715 310334.832 771.28416 5.15 WIL-33 790.81
2447443.715 310334.832 770.96272 2.02 WIL-33 790.81
2447443.715 310334.832 770.68064 0.16 WIL-33 790.81
2447443.715 310334.832 770.41496 -0.11 WIL-33 790.81
2447443.715 310334.832 770.07712 0.06 WIL-33 790.81
2447443.715 310334.832 769.7524 0.22 WIL-33 790.81
2447443.715 310334.832 769.44408 0.25 WIL-33 790.81
2447443.715 310334.832 769.26368 0.13 WIL-33 790.81
2447453.392 310290.666 789.677 5.46 WIL-34 789.677
2447453.392 310290.666 789.37196 0.34 WIL-34 789.677
2447453.392 310290.666 789.10956 1.13 WIL-34 789.677
2447453.392 310290.666 788.775 1.51 WIL-34 789.677
2447453.392 310290.666 788.53556 0.97 WIL-34 789.677
2447453.392 310290.666 788.26004 3.94 WIL-34 789.677
2447453.392 310290.666 788.0206 4.23 WIL-34 789.677
2447453.392 310290.666 787.7418 3.95 WIL-34 789.677
2447453.392 310290.666 787.5122 3.2 WIL-34 789.677
2447453.392 310290.666 787.25636 2.37 WIL-34 789.677
2447453.392 310290.666 787.02348 2.3 WIL-34 789.677
2447453.392 310290.666 786.78404 2.95 WIL-34 789.677
2447453.392 310290.666 786.54788 1.13 WIL-34 789.677
2447453.392 310290.666 786.27564 2.9 WIL-34 789.677
2447453.392 310290.666 786.00668 3.37 WIL-34 789.677
2447453.392 310290.666 785.75412 1.32 WIL-34 789.677
2447453.392 310290.666 785.50156 2.43 WIL-34 789.677
2447453.392 310290.666 785.24572 1.25 WIL-34 789.677
2447453.392 310290.666 784.98988 1.77 WIL-34 789.677
2447453.392 310290.666 784.73732 3.59 WIL-34 789.677
2447453.392 310290.666 784.51428 1.27 WIL-34 789.677
2447453.392 310290.666 784.27812 0.85 WIL-34 789.677
2447453.392 310290.666 783.91732 1.31 WIL-34 789.677
2447453.392 310290.666 783.58932 0.7 WIL-34 789.677
2447453.392 310290.666 783.3466 1.07 WIL-34 789.677
2447453.392 310290.666 783.0842 0.67 WIL-34 789.677
2447453.392 310290.666 782.79556 0.84 WIL-34 789.677
2447453.392 310290.666 782.52988 -0.12 WIL-34 789.677
2447453.392 310290.666 782.30356 0.83 WIL-34 789.677
2447453.392 310290.666 782.07396 1.96 WIL-34 789.677
2447453.392 310290.666 781.84436 0.63 WIL-34 789.677
2447453.392 310290.666 781.6082 1.3 WIL-34 789.677
2447453.392 310290.666 781.38188 2.27 WIL-34 789.677
2447453.392 310290.666 781.15884 1.44 WIL-34 789.677
2447453.392 310290.666 780.88988 2.32 WIL-34 789.677
2447453.392 310290.666 780.61764 4.05 WIL-34 789.677
2447453.392 310290.666 780.3946 2.93 WIL-34 789.677
2447453.392 310290.666 780.15844 3.34 WIL-34 789.677
2447453.392 310290.666 779.8534 6.01 WIL-34 789.677
2447453.392 310290.666 779.53524 2.25 WIL-34 789.677
2447453.392 310290.666 779.25972 4.11 WIL-34 789.677
2447453.392 310290.666 778.94156 5.47 WIL-34 789.677
2447453.392 310290.666 778.67916 3.51 WIL-34 789.677
2447453.392 310290.666 778.3938 6.4 WIL-34 789.677
2447453.392 310290.666 778.10188 19.54 WIL-34 789.677
2447453.392 310290.666 777.81324 22.11 WIL-34 789.677
2447453.392 310290.666 777.5082 15.65 WIL-34 789.677
2447453.392 310290.666 777.2458 17.2 WIL-34 789.677
2447453.392 310290.666 776.967 20.3 WIL-34 789.677
2447453.392 310290.666 776.67508 21.48 WIL-34 789.677
2447453.392 310290.666 776.3766 13.88 WIL-34 789.677
2447453.392 310290.666 776.1142 14.61 WIL-34 789.677
2447453.392 310290.666 775.89116 19.33 WIL-34 789.677
2447453.392 310290.666 775.63204 16.05 WIL-34 789.677
2447453.392 310290.666 775.2942 18.01 WIL-34 789.677
2447453.392 310290.666 774.97604 22.06 WIL-34 789.677
2447453.392 310290.666 774.69724 18.2 WIL-34 789.677
2447453.392 310290.666 774.46436 17.56 WIL-34 789.677
2447453.392 310290.666 774.24132 58.08 WIL-34 789.677
2447453.392 310290.666 773.92316 25.05 WIL-34 789.677
2447453.392 310290.666 773.605 28.34 WIL-34 789.677
2447453.392 310290.666 773.29996 25.89 WIL-34 789.677
2447453.392 310290.666 772.9982 8.54 WIL-34 789.677
2447453.392 310290.666 772.7358 12.94 WIL-34 789.677
2447453.392 310290.666 772.47668 10.81 WIL-34 789.677
2447453.392 310290.666 772.24052 11.15 WIL-34 789.677
2447453.392 310290.666 771.91252 19.07 WIL-34 789.677
2447453.392 310290.666 771.6042 4.08 WIL-34 789.677
2447453.392 310290.666 771.3746 0.88 WIL-34 789.677
2447453.392 310290.666 771.14172 1.11 WIL-34 789.677
2447453.392 310290.666 770.85964 0.66 WIL-34 789.677
```

2447453.392 310290.666 770.54148 -0.04 WIL-34 789.677
2447453.392 310290.666 770.27908 1.09 WIL-34 789.677
2447453.392 310290.666 770.00356 0.17 WIL-34 789.677
2447453.392 310290.666 769.69524 0.81 WIL-34 789.677
2447453.392 310290.666 769.38036 0.71 WIL-34 789.677
2447453.392 310290.666 769.10812 0.19 WIL-34 789.677
2447453.392 310290.666 768.82604 1.33 WIL-34 789.677
2447453.392 310290.666 768.55052 0.53 WIL-34 789.677
2447453.392 310290.666 768.23892 -0.1 WIL-34 789.677
2447453.392 310290.666 767.94044 0.84 WIL-34 789.677
2447453.392 310290.666 767.66492 0.75 WIL-34 789.677
2447453.392 310290.666 767.44188 0.05 WIL-34 789.677
2447453.392 310290.666 767.209 0.77 WIL-34 789.677
2447453.392 310290.666 766.97612 0.46 WIL-34 789.677
2447453.392 310290.666 766.73668 -0.24 WIL-34 789.677
2447453.392 310290.666 766.49724 0.28 WIL-34 789.677
2447453.392 310290.666 766.2086 0.51 WIL-34 789.677
2447453.392 310290.666 765.95604 -0.33 WIL-34 789.677
2447453.392 310290.666 765.85108 0.67 WIL-34 789.677
2447513.562 310278.396 793.355 1.71 WIL-35 793.355
2447513.562 310278.396 793.11556 -0.15 WIL-35 793.355
2447513.562 310278.396 792.81708 -0.01 WIL-35 793.355
2447513.562 310278.396 792.47924 -0.19 WIL-35 793.355
2447513.562 310278.396 792.23652 -0.14 WIL-35 793.355
2447513.562 310278.396 791.9446 0.03 WIL-35 793.355
2447513.562 310278.396 791.32796 -0.53 WIL-35 793.355
2447513.562 310278.396 791.05244 -0.46 WIL-35 793.355
2447513.562 310278.396 790.7474 -0.18 WIL-35 793.355
2447513.562 310278.396 790.46532 -0.61 WIL-35 793.355
2447513.562 310278.396 790.1734 0.01 WIL-35 793.355
2447513.562 310278.396 789.91428 -0.8 WIL-35 793.355
2447513.562 310278.396 789.62236 -0.34 WIL-35 793.355
2447513.562 310278.396 789.32388 -0.15 WIL-35 793.355
2447513.562 310278.396 789.0418 -0.18 WIL-35 793.355
2447513.562 310278.396 788.71708 0.03 WIL-35 793.355
2447513.562 310278.396 788.47436 -0.23 WIL-35 793.355
2447513.562 310278.396 788.21196 0.07 WIL-35 793.355
2447513.562 310278.396 787.8774 0.11 WIL-35 793.355
2447513.562 310278.396 787.53956 1.61 WIL-35 793.355
2447513.562 310278.396 787.29028 12.74 WIL-35 793.355
2447513.562 310278.396 787.05412 16.31 WIL-35 793.355
2447513.562 310278.396 786.75564 11.68 WIL-35 793.355
2447513.562 310278.396 786.52276 10.15 WIL-35 793.355
2447513.562 310278.396 786.2374 9.63 WIL-35 793.355
2447513.562 310278.396 785.99796 7.82 WIL-35 793.355
2447513.562 310278.396 785.73556 9.26 WIL-35 793.355
2447513.562 310278.396 785.44364 10.65 WIL-35 793.355
2447513.562 310278.396 785.19436 8.29 WIL-35 793.355
2447513.562 310278.396 784.89588 17.02 WIL-35 793.355
2447513.562 310278.396 784.64988 30.46 WIL-35 793.355
2447513.562 310278.396 784.39076 19.51 WIL-35 793.355
2447513.562 310278.396 784.11196 18.02 WIL-35 793.355
2447513.562 310278.396 783.843 14.94 WIL-35 793.355
2447513.562 310278.396 783.53468 12.67 WIL-35 793.355
2447513.562 310278.396 783.24604 12.54 WIL-35 793.355
2447513.562 310278.396 783.00988 10.76 WIL-35 793.355
2447513.562 310278.396 782.74748 7.94 WIL-35 793.355
2447513.562 310278.396 782.51132 10.12 WIL-35 793.355
2447513.562 310278.396 782.23252 10.09 WIL-35 793.355
2447513.562 310278.396 781.99636 8.47 WIL-35 793.355
2447513.562 310278.396 781.69132 10.69 WIL-35 793.355
2447513.562 310278.396 781.45516 14.02 WIL-35 793.355
2447513.562 310278.396 781.21572 12.66 WIL-35 793.355
2447513.562 310278.396 780.92708 9.03 WIL-35 793.355
2447513.562 310278.396 780.68108 17.36 WIL-35 793.355
2447513.562 310278.396 780.35636 10.22 WIL-35 793.355
2447513.562 310278.396 780.02508 9.33 WIL-35 793.355
2447513.562 310278.396 779.73644 3.8 WIL-35 793.355
2447513.562 310278.396 779.48716 6.77 WIL-35 793.355
2447513.562 310278.396 779.15588 3.17 WIL-35 793.355
2447513.562 310278.396 778.84428 -0.47 WIL-35 793.355
2447513.562 310278.396 778.59172 -0.68 WIL-35 793.355
2447513.562 310278.396 778.2998 -0.78 WIL-35 793.355
2447513.562 310278.396 778.0702 -0.71 WIL-35 793.355
2447513.562 310278.396 778.06692 -0.63 WIL-35 793.355
2447481.707 310369.504 791.157 0.53 WIL-36 791.157
2447481.707 310369.504 790.81588 1.03 WIL-36 791.157
2447481.707 310369.504 790.49772 0.51 WIL-36 791.157
2447481.707 310369.504 790.24516 0.93 WIL-36 791.157
2447481.707 310369.504 789.94668 0.73 WIL-36 791.157
2447481.707 310369.504 789.65148 0.63 WIL-36 791.157
2447481.707 310369.504 789.2382 0.6 WIL-36 791.157
2447481.707 310369.504 788.96596 0.55 WIL-36 791.157
2447481.707 310369.504 788.74292 0.88 WIL-36 791.157
2447481.707 310369.504 788.49692 0.53 WIL-36 791.157
2447481.707 310369.504 788.24764 0.87 WIL-36 791.157
2447481.707 310369.504 788.0246 0.77 WIL-36 791.157
2447481.707 310369.504 787.80156 0.61 WIL-36 791.157
2447481.707 310369.504 787.5162 1.02 WIL-36 791.157
2447481.707 310369.504 787.23084 0.75 WIL-36 791.157
2447481.707 310369.504 786.99796 0.84 WIL-36 791.157
2447481.707 310369.504 786.77492 1.11 WIL-36 791.157
2447481.707 310369.504 786.55188 1.04 WIL-36 791.157
2447481.707 310369.504 786.30916 1.1 WIL-36 791.157
2447481.707 310369.504 786.04348 1.46 WIL-36 791.157
2447481.707 310369.504 785.81388 2.69 WIL-36 791.157
2447481.707 310369.504 785.55804 3.43 WIL-36 791.157
2447481.707 310369.504 785.2858 3.24 WIL-36 791.157
2447481.707 310369.504 784.9906 2.14 WIL-36 791.157
2447481.707 310369.504 784.75772 1.84 WIL-36 791.157
2447481.707 310369.504 784.49532 1.47 WIL-36 791.157
2447481.707 310369.504 784.23292 2.18 WIL-36 791.157

```
2447481.707 310369.504 783.96724 2.65 WIL-36 791.157
2447481.707 310369.504 783.72124 4.19 WIL-36 791.157
2447481.707 310369.504 783.45556 0.96 WIL-36 791.157
2447481.707 310369.504 783.19644 1.51 WIL-36 791.157
2447481.707 310369.504 782.9078 1.9 WIL-36 791.157
2447481.707 310369.504 782.65852 2.11 WIL-36 791.157
2447481.707 310369.504 782.383 1.54 WIL-36 791.157
2447481.707 310369.504 782.08124 0.85 WIL-36 791.157
2447481.707 310369.504 781.82868 1.66 WIL-36 791.157
2447481.707 310369.504 781.57284 3.35 WIL-36 791.157
2447481.707 310369.504 781.34652 1.44 WIL-36 791.157
2447481.707 310369.504 781.08412 2.19 WIL-36 791.157
2447481.707 310369.504 780.82828 2.93 WIL-36 791.157
2447481.707 310369.504 780.59212 1.85 WIL-36 791.157
2447481.707 310369.504 780.30348 1.9 WIL-36 791.157
2447481.707 310369.504 780.0542 2.51 WIL-36 791.157
2447481.707 310369.504 779.82132 2.53 WIL-36 791.157
2447481.707 310369.504 779.59172 4.35 WIL-36 791.157
2447481.707 310369.504 779.32932 9.38 WIL-36 791.157
2447481.707 310369.504 779.06692 6.59 WIL-36 791.157
2447481.707 310369.504 778.8242 5.82 WIL-36 791.157
2447481.707 310369.504 778.54212 6.26 WIL-36 791.157
2447481.707 310369.504 778.2502 14.81 WIL-36 791.157
2447481.707 310369.504 777.96484 12.19 WIL-36 791.157
2447481.707 310369.504 777.71556 8.33 WIL-36 791.157
2447481.707 310369.504 777.44332 6.84 WIL-36 791.157
2447481.707 310369.504 777.20388 5.25 WIL-36 791.157
2447481.707 310369.504 776.94804 8.17 WIL-36 791.157
2447481.707 310369.504 776.69548 8.14 WIL-36 791.157
2447481.707 310369.504 776.4134 10.68 WIL-36 791.157
2447481.707 310369.504 776.151 4.86 WIL-36 791.157
2447481.707 310369.504 775.86564 4.62 WIL-36 791.157
2447481.707 310369.504 775.59996 6.29 WIL-36 791.157
2447481.707 310369.504 775.34084 11.3 WIL-36 791.157
2447481.707 310369.504 775.04564 6.72 WIL-36 791.157
2447481.707 310369.504 774.757 11.43 WIL-36 791.157
2447481.707 310369.504 774.4782 21.27 WIL-36 791.157
2447481.707 310369.504 774.22236 12.34 WIL-36 791.157
2447481.707 310369.504 773.99932 17.29 WIL-36 791.157
2447481.707 310369.504 773.7402 10.51 WIL-36 791.157
2447481.707 310369.504 773.47124 1.14 WIL-36 791.157
2447481.707 310369.504 773.1826 1.17 WIL-36 791.157
2447481.707 310369.504 772.93332 1.1 WIL-36 791.157
2447481.707 310369.504 772.6414 1.84 WIL-36 791.157
2447481.707 310369.504 772.3954 1.08 WIL-36 791.157
2447481.707 310369.504 772.10676 1 WIL-36 791.157
2447481.707 310369.504 771.78204 0.84 WIL-36 791.157
2447481.707 310369.504 771.45404 0.67 WIL-36 791.157
2447481.707 310369.504 771.1326 0.93 WIL-36 791.157
2447481.707 310369.504 770.85052 1.55 WIL-36 791.157
2447481.707 310369.504 770.61436 1.02 WIL-36 791.157
2447481.707 310369.504 770.36836 1.52 WIL-36 791.157
2447481.707 310369.504 770.06004 0.92 WIL-36 791.157
2447481.707 310369.504 769.7386 0.49 WIL-36 791.157
2447481.707 310369.504 769.42372 0.97 WIL-36 791.157
2447481.707 310369.504 769.14164 1.46 WIL-36 791.157
2447481.707 310369.504 768.82676 0.88 WIL-36 791.157
2447481.707 310369.504 768.56764 0.84 WIL-36 791.157
2447481.707 310369.504 768.279 1 WIL-36 791.157
2447481.707 310369.504 768.033 0.79 WIL-36 791.157
2447481.707 310369.504 767.7214 1.37 WIL-36 791.157
2447481.707 310369.504 767.49508 1.47 WIL-36 791.157
2447481.707 310369.504 767.25236 0.62 WIL-36 791.157
2447481.707 310369.504 767.10804 3.01 WIL-36 791.157
2447584.429 310415.275 789.472 2.06 WIL-37 789.472
2447584.429 310415.275 789.2096 -0.28 WIL-37 789.472
2447584.429 310415.275 788.79632 -0.04 WIL-37 789.472
2447584.429 310415.275 788.41584 -0.14 WIL-37 789.472
2447584.429 310415.275 787.90744 -0.12 WIL-37 789.472
2447584.429 310415.275 787.62536 -0.24 WIL-37 789.472
2447584.429 310415.275 787.32032 0.1 WIL-37 789.472
2447584.429 310415.275 787.05136 0.14 WIL-37 789.472
2447584.429 310415.275 786.79224 0.36 WIL-37 789.472
2447584.429 310415.275 786.46752 -0.23 WIL-37 789.472
2447584.429 310415.275 786.18216 -0.33 WIL-37 789.472
2447584.429 310415.275 785.91976 -0.17 WIL-37 789.472
2447584.429 310415.275 785.69344 0.1 WIL-37 789.472
2447584.429 310415.275 785.43432 0.06 WIL-37 789.472
2447584.429 310415.275 785.208 0.02 WIL-37 789.472
2447584.429 310415.275 784.9784 -0.28 WIL-37 789.472
2447584.429 310415.275 784.67336 -0.2 WIL-37 789.472
2447584.429 310415.275 784.44048 -0.23 WIL-37 789.472
2447584.429 310415.275 784.18136 -0.44 WIL-37 789.472
2447584.429 310415.275 783.91568 -0.12 WIL-37 789.472
2447584.429 310415.275 783.65328 -0.29 WIL-37 789.472
2447584.429 310415.275 783.404 -0.49 WIL-37 789.472
2447584.429 310415.275 783.15144 -0.6 WIL-37 789.472
2447584.429 310415.275 782.88904 -0.08 WIL-37 789.472
2447584.429 310415.275 782.63648 -0.18 WIL-37 789.472
2447584.429 310415.275 782.32488 -0.38 WIL-37 789.472
2447584.429 310415.275 782.0756 -0.46 WIL-37 789.472
2447584.429 310415.275 781.83616 -0.38 WIL-37 789.472
2447584.429 310415.275 781.56392 -0.58 WIL-37 789.472
2447584.429 310415.275 781.33432 -0.55 WIL-37 789.472
2447584.429 310415.275 781.03256 -0.35 WIL-37 789.472
2447584.429 310415.275 780.76032 -0.72 WIL-37 789.472
2447584.429 310415.275 780.5176 -0.7 WIL-37 789.472
2447584.429 310415.275 780.24536 -0.56 WIL-37 789.472
2447584.429 310415.275 779.9436 -0.66 WIL-37 789.472
2447584.429 310415.275 779.67792 -0.27 WIL-37 789.472
2447584.429 310415.275 779.39584 0.94 WIL-37 789.472
2447584.429 310415.275 779.15312 -0.46 WIL-37 789.472
```

2447584.429 310415.275 778.8612 -0.54 WIL-37 789.472
2447584.429 310415.275 778.5988 0.69 WIL-37 789.472
2447584.429 310415.275 778.35936 1.35 WIL-37 789.472
2447584.429 310415.275 778.1232 0.52 WIL-37 789.472
2447584.429 310415.275 777.86408 -0.17 WIL-37 789.472
2447584.429 310415.275 777.63776 -0.68 WIL-37 789.472
2447584.429 310415.275 777.40488 1.5 WIL-37 789.472
2447584.429 310415.275 777.15232 1.31 WIL-37 789.472
2447584.429 310415.275 776.92272 11.78 WIL-37 789.472
2447584.429 310415.275 776.65704 2.8 WIL-37 789.472
2447584.429 310415.275 776.43072 7.59 WIL-37 789.472
2447584.429 310415.275 776.188 9.38 WIL-37 789.472
2447584.429 310415.275 775.94528 30.94 WIL-37 789.472
2447584.429 310415.275 775.68944 14.18 WIL-37 789.472
2447584.429 310415.275 775.46312 5.99 WIL-37 789.472
2447584.429 310415.275 775.18432 8.14 WIL-37 789.472
2447584.429 310415.275 774.96128 6.95 WIL-37 789.472
2447584.429 310415.275 774.66608 0.99 WIL-37 789.472
2447584.429 310415.275 774.39712 -0.55 WIL-37 789.472
2447584.429 310415.275 774.15768 -0.69 WIL-37 789.472
2447584.429 310415.275 773.90512 8.93 WIL-37 789.472
2447584.429 310415.275 773.61648 21.41 WIL-37 789.472
2447584.429 310415.275 773.35736 -0.54 WIL-37 789.472
2447584.429 310415.275 773.10152 -0.73 WIL-37 789.472
2447584.429 310415.275 772.86208 -0.68 WIL-37 789.472
2447584.429 310415.275 772.60296 -0.69 WIL-37 789.472
2447584.429 310415.275 772.37336 0.5 WIL-37 789.472
2447584.429 310415.275 772.14048 -0.6 WIL-37 789.472
2447584.429 310415.275 771.86168 22.53 WIL-37 789.472
2447584.429 310415.275 771.60256 22.33 WIL-37 789.472
2447584.429 310415.275 771.3336 24.25 WIL-37 789.472
2447584.429 310415.275 771.104 19.47 WIL-37 789.472
2447584.429 310415.275 770.8744 22.15 WIL-37 789.472
2447584.429 310415.275 770.60544 17.33 WIL-37 789.472
2447584.429 310415.275 770.3332 43.96 WIL-37 789.472
2447584.429 310415.275 770.08064 14.34 WIL-37 789.472
2447584.429 310415.275 769.85104 16.96 WIL-37 789.472
2447584.429 310415.275 769.60504 21.64 WIL-37 789.472
2447584.429 310415.275 769.35904 12.53 WIL-37 789.472
2447584.429 310415.275 769.12944 11.99 WIL-37 789.472
2447584.429 310415.275 768.972 7.16 WIL-37 789.472
2447482.268 310434.131 791.158 0.96 WIL-38 791.158
2447482.268 310434.131 790.90216 -0.64 WIL-38 791.158
2447482.268 310434.131 790.66272 -0.83 WIL-38 791.158
2447482.268 310434.131 790.3708 -0.6 WIL-38 791.158
2447482.268 310434.131 790.04936 -0.95 WIL-38 791.158
2447482.268 310434.131 789.76728 -0.55 WIL-38 791.158
2447482.268 310434.131 789.48192 -0.55 WIL-38 791.158
2447482.268 310434.131 789.21952 -0.56 WIL-38 791.158
2447482.268 310434.131 788.95056 -0.69 WIL-38 791.158
2447482.268 310434.131 788.64552 -0.53 WIL-38 791.158
2447482.268 310434.131 788.37984 -0.79 WIL-38 791.158
2447482.268 310434.131 788.08792 -0.73 WIL-38 791.158
2447482.268 310434.131 787.82224 -0.85 WIL-38 791.158
2447482.268 310434.131 787.5664 -0.81 WIL-38 791.158
2447482.268 310434.131 787.34336 -0.72 WIL-38 791.158
2447482.268 310434.131 787.08752 -0.97 WIL-38 791.158
2447482.268 310434.131 786.85464 -0.86 WIL-38 791.158
2447482.268 310434.131 786.5988 -0.77 WIL-38 791.158
2447482.268 310434.131 786.3528 -0.53 WIL-38 791.158
2447482.268 310434.131 786.11336 -0.57 WIL-38 791.158
2447482.268 310434.131 785.86736 -0.71 WIL-38 791.158
2447482.268 310434.131 785.64432 0.03 WIL-38 791.158
2447482.268 310434.131 785.41472 0.45 WIL-38 791.158
2447482.268 310434.131 785.16544 0.05 WIL-38 791.158
2447482.268 310434.131 784.8932 0.43 WIL-38 791.158
2447482.268 310434.131 784.65704 1.77 WIL-38 791.158
2447482.268 310434.131 784.39136 -0.63 WIL-38 791.158
2447482.268 310434.131 784.16832 0.88 WIL-38 791.158
2447482.268 310434.131 783.90264 7.53 WIL-38 791.158
2447482.268 310434.131 783.59104 6.96 WIL-38 791.158
2447482.268 310434.131 783.30568 9.85 WIL-38 791.158
2447482.268 310434.131 783.0072 5.68 WIL-38 791.158
2447482.268 310434.131 782.7448 6.21 WIL-38 791.158
2447482.268 310434.131 782.5152 8.06 WIL-38 791.158
2447482.268 310434.131 782.21016 14.53 WIL-38 791.158
2447482.268 310434.131 781.88544 14 WIL-38 791.158
2447482.268 310434.131 781.6624 22.77 WIL-38 791.158
2447482.268 310434.131 781.40656 17.47 WIL-38 791.158
2447482.268 310434.131 781.1048 2.59 WIL-38 791.158
2447482.268 310434.131 780.826 0.92 WIL-38 791.158
2447482.268 310434.131 780.57344 2.92 WIL-38 791.158
2447482.268 310434.131 780.33728 4.1 WIL-38 791.158
2447482.268 310434.131 780.09784 0.75 WIL-38 791.158
2447482.268 310434.131 779.83872 0.53 WIL-38 791.158
2447482.268 310434.131 779.60912 2.11 WIL-38 791.158
2447482.268 310434.131 779.37296 1.79 WIL-38 791.158
2447482.268 310434.131 779.13352 0.56 WIL-38 791.158
2447482.268 310434.131 778.86128 3.45 WIL-38 791.158
2447482.268 310434.131 778.60872 3.44 WIL-38 791.158
2447482.268 310434.131 778.3332 1.65 WIL-38 791.158
2447482.268 310434.131 778.07736 0.87 WIL-38 791.158
2447482.268 310434.131 777.8248 2.2 WIL-38 791.158
2447482.268 310434.131 777.58536 0.76 WIL-38 791.158
2447482.268 310434.131 777.31312 17.36 WIL-38 791.158
2447482.268 310434.131 777.25736 27.24 WIL-38 791.158
2447482.268 310434.131 777.22128 9.52 WIL-38 791.158
2447482.268 310434.131 777.15568 1.61 WIL-38 791.158
2447482.268 310434.131 777.0868 0.27 WIL-38 791.158
2447482.268 310434.131 776.972 0 WIL-38 791.158
2447482.268 310434.131 776.78504 0.47 WIL-38 791.158
2447444.964 310482.483 793.336 1.52 WIL-39 793.336

```
2447444.964 310482.483 792.93584 0.15 WIL-39 793.336
2447444.964 310482.483 792.3848 0.04 WIL-39 793.336
2447444.964 310482.483 792.06664 0.41 WIL-39 793.336
2447444.964 310482.483 791.49264 0.05 WIL-39 793.336
2447444.964 310482.483 791.12856 0.21 WIL-39 793.336
2447444.964 310482.483 790.88584 -0.46 WIL-39 793.336
2447444.964 310482.483 790.63656 -0.36 WIL-39 793.336
2447444.964 310482.483 790.39712 -0.58 WIL-39 793.336
2447444.964 310482.483 790.138 -0.48 WIL-39 793.336
2447444.964 310482.483 789.88544 -0.4 WIL-39 793.336
2447444.964 310482.483 789.58696 -0.36 WIL-39 793.336
2447444.964 310482.483 789.34096 -0.44 WIL-39 793.336
2447444.964 310482.483 789.09824 -0.46 WIL-39 793.336
2447444.964 310482.483 788.8096 -0.42 WIL-39 793.336
2447444.964 310482.483 788.57672 -0.72 WIL-39 793.336
2447444.964 310482.483 788.34056 -0.62 WIL-39 793.336
2447444.964 310482.483 788.09128 -0.77 WIL-39 793.336
2447444.964 310482.483 787.85184 -0.79 WIL-39 793.336
2447444.964 310482.483 787.54024 -0.82 WIL-39 793.336
2447444.964 310482.483 787.2844 -0.55 WIL-39 793.336
2447444.964 310482.483 787.05808 -0.7 WIL-39 793.336
2447444.964 310482.483 786.79568 -0.79 WIL-39 793.336
2447444.964 310482.483 786.51688 -0.75 WIL-39 793.336
2447444.964 310482.483 786.23808 -0.23 WIL-39 793.336
2447444.964 310482.483 785.9232 -0.65 WIL-39 793.336
2447444.964 310482.483 785.65752 -0.89 WIL-39 793.336
2447444.964 310482.483 785.33608 -0.64 WIL-39 793.336
2447444.964 310482.483 785.04416 -0.74 WIL-39 793.336
2447444.964 310482.483 784.78832 -0.94 WIL-39 793.336
2447444.964 310482.483 784.49968 -0.67 WIL-39 793.336
2447444.964 310482.483 784.21432 -0.82 WIL-39 793.336
2447444.964 310482.483 783.94536 -0.76 WIL-39 793.336
2447444.964 310482.483 783.68952 -0.9 WIL-39 793.336
2447444.964 310482.483 783.45336 -0.81 WIL-39 793.336
2447444.964 310482.483 783.168 -0.71 WIL-39 793.336
2447444.964 310482.483 782.87936 -0.81 WIL-39 793.336
2447444.964 310482.483 782.60384 -1.05 WIL-39 793.336
2447444.964 310482.483 782.36768 -1.03 WIL-39 793.336
2447444.964 310482.483 782.09216 -0.82 WIL-39 793.336
2447444.964 310482.483 781.81992 -0.79 WIL-39 793.336
2447444.964 310482.483 781.54112 -0.83 WIL-39 793.336
2447444.964 310482.483 781.21968 -0.73 WIL-39 793.336
2447444.964 310482.483 780.89824 -0.58 WIL-39 793.336
2447444.964 310482.483 780.61944 -0.7 WIL-39 793.336
2447444.964 310482.483 780.3144 -0.73 WIL-39 793.336
2447444.964 310482.483 780.00936 -0.65 WIL-39 793.336
2447444.964 310482.483 779.70432 -0.71 WIL-39 793.336
2447444.964 310482.483 779.45832 -0.76 WIL-39 793.336
2447444.964 310482.483 779.15656 -0.83 WIL-39 793.336
2447444.964 310482.483 778.92368 -0.82 WIL-39 793.336
2447444.964 310482.483 778.658 -0.71 WIL-39 793.336
2447444.964 310482.483 778.35296 -0.92 WIL-39 793.336
2447444.964 310482.483 778.06104 -0.9 WIL-39 793.336
2447444.964 310482.483 777.81176 -0.81 WIL-39 793.336
2447444.964 310482.483 777.55592 -0.65 WIL-39 793.336
2447444.964 310482.483 777.53296 -0.62 WIL-39 793.336
2447589.432 310527.067 792.305 4.32 WIL-40 792.305
2447589.432 310527.067 791.95732 0.43 WIL-40 792.305
2447589.432 310527.067 791.66868 0.3 WIL-40 792.305
2447589.432 310527.067 791.42596 0.32 WIL-40 792.305
2447589.432 310527.067 791.15044 0.52 WIL-40 792.305
2447589.432 310527.067 790.9274 0.26 WIL-40 792.305
2447589.432 310527.067 790.62564 0.3 WIL-40 792.305
2447589.432 310527.067 790.39276 2.11 WIL-40 792.305
2447589.432 310527.067 790.12052 3.74 WIL-40 792.305
2447589.432 310527.067 789.88108 24.8 WIL-40 792.305
2447589.432 310527.067 789.61212 29.38 WIL-40 792.305
2447589.432 310527.067 789.353 25.09 WIL-40 792.305
2447589.432 310527.067 789.10372 23.68 WIL-40 792.305
2447589.432 310527.067 788.85116 24.89 WIL-40 792.305
2447589.432 310527.067 788.62484 19.28 WIL-40 792.305
2447589.432 310527.067 788.37884 16.28 WIL-40 792.305
2447589.432 310527.067 788.14268 18.17 WIL-40 792.305
2447589.432 310527.067 787.91636 23.78 WIL-40 792.305
2447589.432 310527.067 787.62116 21.27 WIL-40 792.305
2447589.432 310527.067 787.3358 11.95 WIL-40 792.305
2447589.432 310527.067 787.08324 8.15 WIL-40 792.305
2447589.432 310527.067 786.80772 14.41 WIL-40 792.305
2447589.432 310527.067 786.5486 13.65 WIL-40 792.305
2447589.432 310527.067 786.31244 8.07 WIL-40 792.305
2447589.432 310527.067 786.08284 13.45 WIL-40 792.305
2447589.432 310527.067 785.7614 11.1 WIL-40 792.305
2447589.432 310527.067 785.5318 15.25 WIL-40 792.305
2447589.432 310527.067 785.29564 8.23 WIL-40 792.305
2447589.432 310527.067 785.04964 11.86 WIL-40 792.305
2447589.432 310527.067 784.75772 13.18 WIL-40 792.305
2447589.432 310527.067 784.52484 7.62 WIL-40 792.305
2447589.432 310527.067 784.29524 2.11 WIL-40 792.305
2447589.432 310527.067 784.0066 4.63 WIL-40 792.305
2447589.432 310527.067 783.77372 8.8 WIL-40 792.305
2447589.432 310527.067 783.5474 21.93 WIL-40 792.305
2447589.432 310527.067 783.31452 14.38 WIL-40 792.305
2447589.432 310527.067 783.0718 12.52 WIL-40 792.305
2447589.432 310527.067 782.84876 26.89 WIL-40 792.305
2447589.432 310527.067 782.62244 29.45 WIL-40 792.305
2447589.432 310527.067 782.3666 24.1 WIL-40 792.305
2447589.432 310527.067 782.13044 28.85 WIL-40 792.305
2447589.432 310527.067 781.88116 8.68 WIL-40 792.305
2447589.432 310527.067 781.62204 6.26 WIL-40 792.305
2447589.432 310527.067 781.32356 5.6 WIL-40 792.305
2447589.432 310527.067 781.06772 1.15 WIL-40 792.305
2447589.432 310527.067 780.83484 0.57 WIL-40 792.305
```

```
2447589.432 310527.067 780.57572 0.86 WIL-40 792.305
2447589.432 310527.067 780.3166 0.69 WIL-40 792.305
2447589.432 310527.067 780.08372 0.91 WIL-40 792.305
2447589.432 310527.067 779.81476 1.62 WIL-40 792.305
2447589.432 310527.067 779.55892 0.7 WIL-40 792.305
2447589.432 310527.067 779.31292 0.05 WIL-40 792.305
2447589.432 310527.067 779.05052 1.14 WIL-40 792.305
2447589.432 310527.067 778.77828 0.14 WIL-40 792.305
2447589.432 310527.067 778.54868 0.32 WIL-40 792.305
2447589.432 310527.067 778.27316 0.18 WIL-40 792.305
2447589.432 310527.067 778.05012 0.83 WIL-40 792.305
2447589.432 310527.067 777.78116 0.32 WIL-40 792.305
2447589.432 310527.067 777.4958 3.72 WIL-40 792.305
2447589.432 310527.067 777.21372 5.25 WIL-40 792.305
2447589.432 310527.067 776.96772 5.52 WIL-40 792.305
2447589.432 310527.067 776.7414 14.55 WIL-40 792.305
2447589.432 310527.067 776.51836 10.53 WIL-40 792.305
2447589.432 310527.067 776.25268 6.78 WIL-40 792.305
2447589.432 310527.067 776.00668 11.74 WIL-40 792.305
2447589.432 310527.067 775.76068 12.53 WIL-40 792.305
2447589.432 310527.067 775.51468 28.06 WIL-40 792.305
2447589.432 310527.067 775.27852 20.82 WIL-40 792.305
2447589.432 310527.067 775.02268 11.29 WIL-40 792.305
2447589.432 310527.067 774.79308 11.62 WIL-40 792.305
2447589.432 310527.067 774.50116 5.82 WIL-40 792.305
2447589.432 310527.067 774.27812 0.82 WIL-40 792.305
2447589.432 310527.067 773.9862 2.52 WIL-40 792.305
2447589.432 310527.067 773.74348 4.43 WIL-40 792.305
2447589.432 310527.067 773.4614 0.23 WIL-40 792.305
2447589.432 310527.067 773.22852 8.24 WIL-40 792.305
2447589.432 310527.067 773.0022 18.09 WIL-40 792.305
2447589.432 310527.067 772.76604 19.3 WIL-40 792.305
2447589.432 310527.067 772.52988 22.58 WIL-40 792.305
2447589.432 310527.067 772.26748 8.98 WIL-40 792.305
2447589.432 310527.067 772.04444 16.32 WIL-40 792.305
2447589.432 310527.067 771.81812 13.61 WIL-40 792.305
2447589.432 310527.067 771.55244 4.85 WIL-40 792.305
2447589.432 310527.067 771.32284 16.59 WIL-40 792.305
2447589.432 310527.067 771.05716 9 WIL-40 792.305
2447589.432 310527.067 770.8046 6.93 WIL-40 792.305
2447589.432 310527.067 770.54876 0.22 WIL-40 792.305
2447589.432 310527.067 770.30932 6.63 WIL-40 792.305
2447589.432 310527.067 770.02068 12.28 WIL-40 792.305
2447589.432 310527.067 769.79108 50.78 WIL-40 792.305
2447589.432 310527.067 769.53852 19.53 WIL-40 792.305
2447589.432 310527.067 769.28268 17.8 WIL-40 792.305
2447589.432 310527.067 769.05964 42.67 WIL-40 792.305
2447589.432 310527.067 768.77756 18.65 WIL-40 792.305
2447589.432 310527.067 768.53156 22.29 WIL-40 792.305
2447589.432 310527.067 768.28556 20.37 WIL-40 792.305
2447589.432 310527.067 768.03628 10.86 WIL-40 792.305
2447589.432 310527.067 767.9182 8.66 WIL-40 792.305
2447638.611 310510.047 792.258 1.86 WIL-41 792.258
2447638.611 310510.047 791.85456 -0.2 WIL-41 792.258
2447638.611 310510.047 791.61512 -0.5 WIL-41 792.258
2447638.611 310510.047 791.01816 -0.39 WIL-41 792.258
2447638.611 310510.047 790.79184 -0.23 WIL-41 792.258
2447638.611 310510.047 790.52616 -0.39 WIL-41 792.258
2447638.611 310510.047 790.28016 -0.43 WIL-41 792.258
2447638.611 310510.047 790.02432 -0.39 WIL-41 792.258
2447638.611 310510.047 789.7816 -0.4 WIL-41 792.258
2447638.611 310510.047 789.49952 -0.07 WIL-41 792.258
2447638.611 310510.047 789.25024 -0.27 WIL-41 792.258
2447638.611 310510.047 788.98784 -0.23 WIL-41 792.258
2447638.611 310510.047 788.76152 -0.5 WIL-41 792.258
2447638.611 310510.047 788.51552 -0.4 WIL-41 792.258
2447638.611 310510.047 788.29248 -0.45 WIL-41 792.258
2447638.611 310510.047 788.03008 -0.3 WIL-41 792.258
2447638.611 310510.047 787.79392 -0.07 WIL-41 792.258
2447638.611 310510.047 787.52168 3.2 WIL-41 792.258
2447638.611 310510.047 787.29536 5.11 WIL-41 792.258
2447638.611 310510.047 787.06904 3.73 WIL-41 792.258
2447638.611 310510.047 786.82304 9.82 WIL-41 792.258
2447638.611 310510.047 786.51144 15.67 WIL-41 792.258
2447638.611 310510.047 786.25888 11.06 WIL-41 792.258
2447638.611 310510.047 785.9932 7.91 WIL-41 792.258
2447638.611 310510.047 785.73736 17.32 WIL-41 792.258
2447638.611 310510.047 785.49136 47.2 WIL-41 792.258
2447638.611 310510.047 785.19944 27.38 WIL-41 792.258
2447638.611 310510.047 784.93376 42.98 WIL-41 792.258
2447638.611 310510.047 784.69432 71.12 WIL-41 792.258
2447638.611 310510.047 784.46144 73.16 WIL-41 792.258
2447638.611 310510.047 784.23512 68.73 WIL-41 792.258
2447638.611 310510.047 783.95304 66.73 WIL-41 792.258
2447638.611 310510.047 783.69392 58.9 WIL-41 792.258
2447638.611 310510.047 783.46432 42.06 WIL-41 792.258
2447638.611 310510.047 783.22816 38.13 WIL-41 792.258
2447638.611 310510.047 783.00512 33.95 WIL-41 792.258
2447638.611 310510.047 782.77224 50.02 WIL-41 792.258
2447638.611 310510.047 782.52624 47.33 WIL-41 792.258
2447638.611 310510.047 782.27368 39.27 WIL-41 792.258
2447638.611 310510.047 782.04408 12.14 WIL-41 792.258
2447638.611 310510.047 781.80464 12.05 WIL-41 792.258
2447638.611 310510.047 781.5488 6.83 WIL-41 792.258
2447638.611 310510.047 781.26344 4.57 WIL-41 792.258
2447638.611 310510.047 780.98792 11.68 WIL-41 792.258
2447638.611 310510.047 780.72224 30.99 WIL-41 792.258
2447638.611 310510.047 780.4664 10.83 WIL-41 792.258
2447638.611 310510.047 780.21712 9.46 WIL-41 792.258
2447638.611 310510.047 779.95472 7.04 WIL-41 792.258
2447638.611 310510.047 779.67592 25.64 WIL-41 792.258
2447638.611 310510.047 779.4168 12.01 WIL-41 792.258
```

```
2447638.611 310510.047 779.19048 6.55 WIL-41 792.258
2447352.964 310507.65 795.364 4.54 WIL-43 795.364
2447352.964 310507.65 795.14096 -1.13 WIL-43 795.364
2447352.964 310507.65 794.85232 -0.49 WIL-43 795.364
2447352.964 310507.65 794.43248 -1.29 WIL-43 795.364
2447352.964 310507.65 794.0684 -1.43 WIL-43 795.364
2447352.964 310507.65 793.806 -0.22 WIL-43 795.364
2447352.964 310507.65 793.5272 -0.14 WIL-43 795.364
2447352.964 310507.65 793.27792 -0.12 WIL-43 795.364
2447352.964 310507.65 793.0188 -0.37 WIL-43 795.364
2447352.964 310507.65 792.70064 -1.23 WIL-43 795.364
2447352.964 310507.65 792.40872 -3.11 WIL-43 795.364
2447352.964 310507.65 792.1824 -2.42 WIL-43 795.364
2447352.964 310507.65 791.94296 -2.41 WIL-43 795.364
2447352.964 310507.65 791.71008 -2.88 WIL-43 795.364
2447352.964 310507.65 791.48048 -2.38 WIL-43 795.364
2447352.964 310507.65 791.25416 -2.23 WIL-43 795.364
2447352.964 310507.65 791.02784 -2.26 WIL-43 795.364
2447352.964 310507.65 790.7884 -2.25 WIL-43 795.364
2447352.964 310507.65 790.50304 -1.62 WIL-43 795.364
2447352.964 310507.65 790.22096 -1.79 WIL-43 795.364
2447352.964 310507.65 789.98152 -0.39 WIL-43 795.364
2447352.964 310507.65 789.7224 0.05 WIL-43 795.364
2447352.964 310507.65 789.4764 0.88 WIL-43 795.364
2447352.964 310507.65 789.214 0.49 WIL-43 795.364
2447352.964 310507.65 788.93192 0.12 WIL-43 795.364
2447352.964 310507.65 788.7056 0.6 WIL-43 795.364
2447352.964 310507.65 788.37432 0.25 WIL-43 795.364
2447352.964 310507.65 788.066 -0.51 WIL-43 795.364
2447352.964 310507.65 787.78392 -0.44 WIL-43 795.364
2447352.964 310507.65 787.55432 1.49 WIL-43 795.364
2447352.964 310507.65 787.32472 1.2 WIL-43 795.364
2447352.964 310507.65 787.08856 1.45 WIL-43 795.364
2447352.964 310507.65 786.83272 -0.59 WIL-43 795.364
2447352.964 310507.65 786.58672 -1.71 WIL-43 795.364
2447352.964 310507.65 786.35712 -1.35 WIL-43 795.364
2447352.964 310507.65 786.07176 -0.96 WIL-43 795.364
2447352.964 310507.65 785.79624 -0.84 WIL-43 795.364
2447352.964 310507.65 785.51744 -0.9 WIL-43 795.364
2447352.964 310507.65 785.23864 -0.58 WIL-43 795.364
2447352.964 310507.65 784.9992 -1.67 WIL-43 795.364
2447352.964 310507.65 784.74008 -2.26 WIL-43 795.364
2447352.964 310507.65 784.49736 -2.11 WIL-43 795.364
2447352.964 310507.65 784.22512 -2.41 WIL-43 795.364
2447352.964 310507.65 783.93648 -2.3 WIL-43 795.364
2447352.964 310507.65 783.67736 -2.28 WIL-43 795.364
2447352.964 310507.65 783.4248 -2.98 WIL-43 795.364
2447352.964 310507.65 783.14928 -2.72 WIL-43 795.364
2447352.964 310507.65 782.90656 -3.01 WIL-43 795.364
2447352.964 310507.65 782.66384 -3.01 WIL-43 795.364
2447352.964 310507.65 782.4244 -2.44 WIL-43 795.364
2447352.964 310507.65 782.18496 -2.01 WIL-43 795.364
2447352.964 310507.65 781.96192 -2.21 WIL-43 795.364
2447352.964 310507.65 781.72576 -1.79 WIL-43 795.364
2447352.964 310507.65 781.49288 -2.51 WIL-43 795.364
2447352.964 310507.65 781.23376 -1.96 WIL-43 795.364
2447352.964 310507.65 780.95824 -2.28 WIL-43 795.364
2447352.964 310507.65 780.72536 -2.8 WIL-43 795.364
2447352.964 310507.65 780.51216 -2.76 WIL-43 795.364
2447303.637 310545.738 799.595 4.01 WIL-44 799.595
2447303.637 310545.738 799.29324 -0.23 WIL-44 799.595
2447303.637 310545.738 799.01772 -0.16 WIL-44 799.595
2447303.637 310545.738 798.78812 0.05 WIL-44 799.595
2447303.637 310545.738 798.45356 -0.13 WIL-44 799.595
2447303.637 310545.738 798.19772 -0.02 WIL-44 799.595
2447303.637 310545.738 797.94844 0.19 WIL-44 799.595
2447303.637 310545.738 797.67948 0.03 WIL-44 799.595
2447303.637 310545.738 797.4138 0.22 WIL-44 799.595
2447303.637 310545.738 797.1842 -0.26 WIL-44 799.595
2447303.637 310545.738 796.96116 -0.33 WIL-44 799.595
2447303.637 310545.738 796.73484 -0.05 WIL-44 799.595
2447303.637 310545.738 796.6266 -0.14 WIL-44 799.595
2447446.082 310618.401 798.744 0.38 WIL-45 798.744
2447446.082 310618.401 798.04536 -1.17 WIL-45 798.744
2447446.082 310618.401 797.8092 -1.65 WIL-45 798.744
2447446.082 310618.401 797.4648 -1.41 WIL-45 798.744
2447446.082 310618.401 797.06792 -1.6 WIL-45 798.744
2447446.082 310618.401 796.694 -1.44 WIL-45 798.744
2447446.082 310618.401 796.33648 -1.43 WIL-45 798.744
2447446.082 310618.401 796.0708 -1.55 WIL-45 798.744
2447446.082 310618.401 795.83792 -1.28 WIL-45 798.744
2447446.082 310618.401 795.55584 -0.84 WIL-45 798.744
2447446.082 310618.401 795.32296 -0.97 WIL-45 798.744
2447446.082 310618.401 795.09008 -1 WIL-45 798.744
2447446.082 310618.401 794.81456 -0.25 WIL-45 798.744
2447446.082 310618.401 794.56528 -0.94 WIL-45 798.744
2447446.082 310618.401 794.31928 -0.97 WIL-45 798.744
2447446.082 310618.401 794.07328 -0.78 WIL-45 798.744
2447446.082 310618.401 793.80432 -1.24 WIL-45 798.744
2447446.082 310618.401 793.52224 -1.09 WIL-45 798.744
2447446.082 310618.401 793.25328 0.72 WIL-45 798.744
2447446.082 310618.401 793.01056 6.57 WIL-45 798.744
2447446.082 310618.401 792.78424 4.57 WIL-45 798.744
2447446.082 310618.401 792.53496 2.11 WIL-45 798.744
2447446.082 310618.401 792.24632 2.63 WIL-45 798.744
2447446.082 310618.401 792.01344 1.4 WIL-45 798.744
2447446.082 310618.401 791.76416 0.62 WIL-45 798.744
2447446.082 310618.401 791.4952 1.62 WIL-45 798.744
2447446.082 310618.401 791.25576 0.76 WIL-45 798.744
2447446.082 310618.401 791.01632 6.55 WIL-45 798.744
2447446.082 310618.401 790.76048 6.31 WIL-45 798.744
2447446.082 310618.401 790.53088 7.13 WIL-45 798.744
```

```
2447446.082 310618.401 790.298 5.48 WIL-45 798.744
2447446.082 310618.401 790.07496 17.08 WIL-45 798.744
2447446.082 310618.401 789.81912 9.13 WIL-45 798.744
2447446.082 310618.401 789.58952 3.17 WIL-45 798.744
2447446.082 310618.401 789.35664 3.38 WIL-45 798.744
2447446.082 310618.401 789.11064 4.63 WIL-45 798.744
2447446.082 310618.401 788.8712 5.51 WIL-45 798.744
2447446.082 310618.401 788.6416 70.49 WIL-45 798.744
2447446.082 310618.401 788.40872 59.62 WIL-45 798.744
2447446.082 310618.401 788.17584 0.19 WIL-45 798.744
2447446.082 310618.401 787.94952 -0.81 WIL-45 798.744
2447446.082 310618.401 787.70352 2.39 WIL-45 798.744
2447446.082 310618.401 787.6248 5.17 WIL-45 798.744
2447495.239 310597.871 797.262 1.93 WIL-46 797.262
2447495.239 310597.871 796.69784 1.93 WIL-46 797.262
2447495.239 310597.871 796.3436 0.55 WIL-46 797.262
2447495.239 310597.871 796.05496 1.27 WIL-46 797.262
2447495.239 310597.871 795.71712 1.43 WIL-46 797.262
2447495.239 310597.871 795.42848 1.98 WIL-46 797.262
2447495.239 310597.871 795.09064 1.1 WIL-46 797.262
2447495.239 310597.871 794.80856 1.73 WIL-46 797.262
2447495.239 310597.871 794.48384 1.27 WIL-46 797.262
2447495.239 310597.871 794.21816 0.36 WIL-46 797.262
2447495.239 310597.871 793.97872 1.13 WIL-46 797.262
2447495.239 310597.871 793.70648 1.77 WIL-46 797.262
2447495.239 310597.871 793.46704 2.09 WIL-46 797.262
2447495.239 310597.871 793.162 2.05 WIL-46 797.262
2447495.239 310597.871 792.91928 1.97 WIL-46 797.262
2447495.239 310597.871 792.64376 2.8 WIL-46 797.262
2447495.239 310597.871 792.36168 2.55 WIL-46 797.262
2447495.239 310597.871 792.0632 1.4 WIL-46 797.262
2447495.239 310597.871 791.74832 3.66 WIL-46 797.262
2447495.239 310597.871 791.4236 3.78 WIL-46 797.262
2447495.239 310597.871 791.14152 4.92 WIL-46 797.262
2447495.239 310597.871 790.90536 18.12 WIL-46 797.262
2447495.239 310597.871 790.59704 39.86 WIL-46 797.262
2447495.239 310597.871 790.36088 33.02 WIL-46 797.262
2447495.239 310597.871 790.06568 29.98 WIL-46 797.262
2447495.239 310597.871 789.8328 65.44 WIL-46 797.262
2447495.239 310597.871 789.56384 13.21 WIL-46 797.262
2447495.239 310597.871 789.33424 4.36 WIL-46 797.262
2447495.239 310597.871 789.00296 4.73 WIL-46 797.262
2447495.239 310597.871 788.77664 1.87 WIL-46 797.262
2447495.239 310597.871 788.51424 -0.02 WIL-46 797.262
2447495.239 310597.871 788.2912 0.12 WIL-46 797.262
2447495.239 310597.871 788.28136 -0.3 WIL-46 797.262
2447543.734 310599.238 797.04 -1.08 WIL-47 797.04
2447543.734 310599.238 796.80384 -1.91 WIL-47 797.04
2447543.734 310599.238 796.55456 -2.05 WIL-47 797.04
2447543.734 310599.238 796.30528 -1.87 WIL-47 797.04
2447543.734 310599.238 796.07896 -1.89 WIL-47 797.04
2447543.734 310599.238 795.83296 -1.91 WIL-47 797.04
2447543.734 310599.238 795.56072 -1.69 WIL-47 797.04
2447543.734 310599.238 795.31472 -1.86 WIL-47 797.04
2447543.734 310599.238 795.09168 -1.4 WIL-47 797.04
2447543.734 310599.238 794.80632 -1.75 WIL-47 797.04
2447543.734 310599.238 794.58 -1.48 WIL-47 797.04
2447543.734 310599.238 794.26512 -1.32 WIL-47 797.04
2447543.734 310599.238 793.96008 -0.98 WIL-47 797.04
2447543.734 310599.238 793.72064 -0.57 WIL-47 797.04
2447543.734 310599.238 793.47136 14.09 WIL-47 797.04
2447543.734 310599.238 793.2188 13.9 WIL-47 797.04
2447543.734 310599.238 792.96624 1.27 WIL-47 797.04
2447543.734 310599.238 792.72352 -0.9 WIL-47 797.04
2447543.734 310599.238 792.49064 12.66 WIL-47 797.04
2447543.734 310599.238 792.22824 12.24 WIL-47 797.04
2447543.734 310599.238 791.99864 20.4 WIL-47 797.04
2447543.734 310599.238 791.73624 27.53 WIL-47 797.04
2447543.734 310599.238 791.4968 29.75 WIL-47 797.04
2447543.734 310599.238 791.22456 41.95 WIL-47 797.04
2447543.734 310599.238 791.00152 37.29 WIL-47 797.04
2447543.734 310599.238 790.7588 33.56 WIL-47 797.04
2447543.734 310599.238 790.47344 26.25 WIL-47 797.04
2447543.734 310599.238 790.19464 42.53 WIL-47 797.04
2447543.734 310599.238 789.91912 31.09 WIL-47 797.04
2447543.734 310599.238 789.65344 86.56 WIL-47 797.04
2447543.734 310599.238 789.36808 145.34 WIL-47 797.04
2447543.734 310599.238 789.12208 50.81 WIL-47 797.04
2447543.734 310599.238 788.94824 56.45 WIL-47 797.04
2447567.442 310652.069 798.647 1.13 WIL-48 798.647
2447567.442 310652.069 798.57484 0.33 WIL-48 798.647
2447567.442 310652.069 798.4502 0.24 WIL-48 798.647
2447567.442 310652.069 798.36164 0.09 WIL-48 798.647
2447567.442 310652.069 798.19436 0 WIL-48 798.647
2447567.442 310652.069 798.15828 0.4 WIL-48 798.647
2447567.442 310652.069 797.93524 0.18 WIL-48 798.647
2447567.442 310652.069 797.71876 0.17 WIL-48 798.647
2447567.442 310652.069 797.50884 0.01 WIL-48 798.647
2447567.442 310652.069 797.2694 0.17 WIL-48 798.647
2447567.442 310652.069 797.13164 0 WIL-48 798.647
2447567.442 310652.069 796.88236 -0.13 WIL-48 798.647
2447567.442 310652.069 796.843 0.02 WIL-48 798.647
2447567.442 310652.069 796.61996 0.57 WIL-48 798.647
2447567.442 310652.069 796.37396 0.71 WIL-48 798.647
2447567.442 310652.069 796.14436 1.78 WIL-48 798.647
2447567.442 310652.069 795.90492 1.72 WIL-48 798.647
2447567.442 310652.069 795.67532 2.48 WIL-48 798.647
2447567.442 310652.069 795.449 1 WIL-48 798.647
2447567.442 310652.069 795.21284 0.9 WIL-48 798.647
2447567.442 310652.069 794.97668 0.34 WIL-48 798.647
2447567.442 310652.069 794.7274 0.44 WIL-48 798.647
2447567.442 310652.069 794.45516 0.59 WIL-48 798.647
```

```
2447567.442 310652.069 794.20588 0.04 WIL-48 798.647
2447567.442 310652.069 793.92052 0.4 WIL-48 798.647
2447567.442 310652.069 793.68436 0.59 WIL-48 798.647
2447567.442 310652.069 793.42852 0.36 WIL-48 798.647
2447567.442 310652.069 793.1858 0.74 WIL-48 798.647
2447567.442 310652.069 792.9398 1.47 WIL-48 798.647
2447567.442 310652.069 792.70036 1.72 WIL-48 798.647
2447567.442 310652.069 792.415 3.41 WIL-48 798.647
2447567.442 310652.069 792.14932 2.39 WIL-48 798.647
2447567.442 310652.069 791.8738 2.32 WIL-48 798.647
2447567.442 310652.069 791.63436 1.52 WIL-48 798.647
2447567.442 310652.069 791.3982 2.8 WIL-48 798.647
2447567.442 310652.069 791.15876 2.08 WIL-48 798.647
2447567.442 310652.069 790.89636 2.62 WIL-48 798.647
2447567.442 310652.069 790.66348 1.58 WIL-48 798.647
2447567.442 310652.069 790.5782 3.45 WIL-48 798.647
2447433.68 310472.897 793.982 0.94 WIL-49 793.982
2447433.68 310472.897 793.71304 -0.78 WIL-49 793.982
2447433.68 310472.897 793.46048 -0.79 WIL-49 793.982
2447433.68 310472.897 793.21776 -0.86 WIL-49 793.982
2447433.68 310472.897 792.98816 -0.92 WIL-49 793.982
2447433.68 310472.897 792.72576 -0.55 WIL-49 793.982
2447433.68 310472.897 792.48632 -0.6 WIL-49 793.982
2447433.68 310472.897 792.2436 -0.72 WIL-49 793.982
2447433.68 310472.897 791.9976 -0.77 WIL-49 793.982
2447433.68 310472.897 791.77456 -0.58 WIL-49 793.982
2447433.68 310472.897 791.50888 -0.38 WIL-49 793.982
2447433.68 310472.897 791.25304 -0.36 WIL-49 793.982
2447433.68 310472.897 791.00048 -0.63 WIL-49 793.982
2447433.68 310472.897 790.76432 -0.62 WIL-49 793.982
2447433.68 310472.897 790.51176 -0.65 WIL-49 793.982
2447433.68 310472.897 790.28872 -0.65 WIL-49 793.982
2447433.68 310472.897 790.06568 -0.75 WIL-49 793.982
2447433.68 310472.897 789.8 -0.79 WIL-49 793.982
2447433.68 310472.897 789.51464 -0.84 WIL-49 793.982
2447433.68 310472.897 789.26536 -0.91 WIL-49 793.982
2447433.68 310472.897 789.04232 -0.66 WIL-49 793.982
2447433.68 310472.897 788.77992 -0.85 WIL-49 793.982
2447433.68 310472.897 788.52408 -0.88 WIL-49 793.982
2447433.68 310472.897 788.28464 -0.72 WIL-49 793.982
2447433.68 310472.897 788.0124 -0.76 WIL-49 793.982
2447433.68 310472.897 787.74016 -0.69 WIL-49 793.982
2447433.68 310472.897 787.46464 -0.76 WIL-49 793.982
2447433.68 310472.897 787.20224 -0.86 WIL-49 793.982
2447433.68 310472.897 786.97264 -0.9 WIL-49 793.982
2447433.68 310472.897 786.72992 -0.78 WIL-49 793.982
2447433.68 310472.897 786.44456 -0.74 WIL-49 793.982
2447433.68 310472.897 786.18544 -0.81 WIL-49 793.982
2447433.68 310472.897 785.94928 -0.78 WIL-49 793.982
2447433.68 310472.897 785.6672 -0.81 WIL-49 793.982
2447433.68 310472.897 785.38184 -0.77 WIL-49 793.982
2447433.68 310472.897 785.09976 -0.78 WIL-49 793.982
2447433.68 310472.897 784.82096 -1 WIL-49 793.982
2447433.68 310472.897 784.54544 -0.8 WIL-49 793.982
2447433.68 310472.897 784.2896 -0.88 WIL-49 793.982
2447433.68 310472.897 784.01736 -0.85 WIL-49 793.982
2447433.68 310472.897 783.72872 -0.78 WIL-49 793.982
2447433.68 310472.897 783.486 -0.72 WIL-49 793.982
2447433.68 310472.897 783.16128 -0.9 WIL-49 793.982
2447433.68 310472.897 782.84312 -0.79 WIL-49 793.982
2447433.68 310472.897 782.54792 -0.67 WIL-49 793.982
2447433.68 310472.897 782.28552 -0.81 WIL-49 793.982
2447433.68 310472.897 782.05264 -0.86 WIL-49 793.982
2447433.68 310472.897 781.82632 -0.78 WIL-49 793.982
2447433.68 310472.897 781.60328 -0.85 WIL-49 793.982
2447433.68 310472.897 781.32776 -0.85 WIL-49 793.982
2447433.68 310472.897 781.10472 -0.79 WIL-49 793.982
2447433.68 310472.897 780.8128 -0.81 WIL-49 793.982
2447433.68 310472.897 780.53072 -0.71 WIL-49 793.982
2447433.68 310472.897 780.2552 -0.79 WIL-49 793.982
2447433.68 310472.897 780.03216 -0.96 WIL-49 793.982
2447433.68 310472.897 780.00592 -0.67 WIL-49 793.982
2447512.883 310535.233 790.97 1.05 WIL-50 790.97
2447512.883 310535.233 790.71416 1.32 WIL-50 790.97
2447512.883 310535.233 790.44192 1.34 WIL-50 790.97
2447512.883 310535.233 790.20904 1.2 WIL-50 790.97
2447512.883 310535.233 789.94336 1.26 WIL-50 790.97
2447512.883 310535.233 789.6744 1.07 WIL-50 790.97
2447512.883 310535.233 789.40216 1.03 WIL-50 790.97
2447512.883 310535.233 789.12664 1 WIL-50 790.97
2447512.883 310535.233 788.85112 1.04 WIL-50 790.97
2447512.883 310535.233 788.5756 0.91 WIL-50 790.97
2447512.883 310535.233 788.30664 1.02 WIL-50 790.97
2447512.883 310535.233 788.03112 1.02 WIL-50 790.97
2447512.883 310535.233 787.75232 1.06 WIL-50 790.97
2447512.883 310535.233 787.46696 0.96 WIL-50 790.97
2447512.883 310535.233 787.18488 0.88 WIL-50 790.97
2447512.883 310535.233 786.89624 1.05 WIL-50 790.97
2447512.883 310535.233 786.61088 1.38 WIL-50 790.97
2447512.883 310535.233 786.35504 1.16 WIL-50 790.97
2447512.883 310535.233 786.07624 1.38 WIL-50 790.97
2447512.883 310535.233 785.79744 1.23 WIL-50 790.97
2447512.883 310535.233 785.56128 1.43 WIL-50 790.97
2447597.622 310575.126 791.044 0.63 WIL-51 791.044
2447597.622 310575.126 790.78488 1.2 WIL-51 791.044
2447597.622 310575.126 790.56184 0.97 WIL-51 791.044
2447597.622 310575.126 790.25024 0.47 WIL-51 791.044
2447597.622 310575.126 789.99112 0.59 WIL-51 791.044
2447597.622 310575.126 789.73856 0.45 WIL-51 791.044
2447597.622 310575.126 789.48928 0.44 WIL-51 791.044
2447597.622 310575.126 789.19408 0.54 WIL-51 791.044
2447597.622 310575.126 788.93168 1.47 WIL-51 791.044
```

2447597.622 310575.126 788.66272 1.91 WIL-51 791.044
2447597.622 310575.126 788.42984 0.79 WIL-51 791.044
2447597.622 310575.126 788.14776 0.65 WIL-51 791.044
2447597.622 310575.126 787.8624 0.53 WIL-51 791.044
2447597.622 310575.126 787.57048 1.79 WIL-51 791.044
2447597.622 310575.126 787.27856 7.34 WIL-51 791.044
2447597.622 310575.126 786.98664 19.39 WIL-51 791.044
2447597.622 310575.126 786.68816 13.59 WIL-51 791.044
2447597.622 310575.126 786.39624 19.97 WIL-51 791.044
2447597.622 310575.126 786.10104 19.52 WIL-51 791.044
2447597.622 310575.126 785.80912 14.28 WIL-51 791.044
2447597.622 310575.126 785.51392 16.08 WIL-51 791.044
2447597.622 310575.126 785.21544 15.34 WIL-51 791.044
2447597.622 310575.126 784.976 16.44 WIL-51 791.044
2447597.622 310575.126 784.6808 22.69 WIL-51 791.044
2447597.622 310575.126 784.3856 23.33 WIL-51 791.044
2447597.622 310575.126 784.10352 22.61 WIL-51 791.044
2447597.622 310575.126 783.82144 28.46 WIL-51 791.044
2447597.622 310575.126 783.53608 13.86 WIL-51 791.044
2447597.622 310575.126 783.25072 18.43 WIL-51 791.044
2447597.622 310575.126 782.96536 23.76 WIL-51 791.044
2447597.622 310575.126 782.68 33.19 WIL-51 791.044
2447597.622 310575.126 782.39792 41.49 WIL-51 791.044
2447597.622 310575.126 782.11256 53.01 WIL-51 791.044
2447597.622 310575.126 781.80096 34.41 WIL-51 791.044
2447597.622 310575.126 781.51232 21.86 WIL-51 791.044
2447597.622 310575.126 781.2532 29.36 WIL-51 791.044
2447597.622 310575.126 780.96456 25.81 WIL-51 791.044
2447597.622 310575.126 780.74152 30.17 WIL-51 791.044
2447597.622 310575.126 780.44632 39.09 WIL-51 791.044
2447597.622 310575.126 780.1872 56.65 WIL-51 791.044
2447597.622 310575.126 779.96088 42.07 WIL-51 791.044
2447597.622 310575.126 779.67224 23.43 WIL-51 791.044
2447597.622 310575.126 779.41312 16.19 WIL-51 791.044
2447597.622 310575.126 779.1868 11.34 WIL-51 791.044
2447597.622 310575.126 778.89488 9.63 WIL-51 791.044
2447597.622 310575.126 778.58656 1.07 WIL-51 791.044
2447597.622 310575.126 778.29464 3.2 WIL-51 791.044
2447597.622 310575.126 777.99616 4.01 WIL-51 791.044
2447597.622 310575.126 777.73048 0.97 WIL-51 791.044
2447597.622 310575.126 777.46152 1.18 WIL-51 791.044
2447597.622 310575.126 777.19584 0.53 WIL-51 791.044
2447597.622 310575.126 776.93016 0.74 WIL-51 791.044
2447597.622 310575.126 776.66448 0.79 WIL-51 791.044
2447597.622 310575.126 776.3988 1.17 WIL-51 791.044
2447597.622 310575.126 776.1364 0.73 WIL-51 791.044
2447597.622 310575.126 775.90352 0.49 WIL-51 791.044
2447597.622 310575.126 775.63784 0.65 WIL-51 791.044
2447597.622 310575.126 775.3656 1.76 WIL-51 791.044
2447597.622 310575.126 775.10648 0.61 WIL-51 791.044
2447597.622 310575.126 774.84408 1.38 WIL-51 791.044
2447597.622 310575.126 774.58168 0.89 WIL-51 791.044
2447597.622 310575.126 774.31928 0.96 WIL-51 791.044
2447597.622 310575.126 774.0536 2.1 WIL-51 791.044
2447597.622 310575.126 773.82072 5.23 WIL-51 791.044
2447597.622 310575.126 773.52224 1.81 WIL-51 791.044
2447597.622 310575.126 773.25656 1.22 WIL-51 791.044
2447597.622 310575.126 772.99088 0.94 WIL-51 791.044
2447597.622 310575.126 772.7252 0.68 WIL-51 791.044
2447597.622 310575.126 772.45624 0.53 WIL-51 791.044
2447597.622 310575.126 772.14464 0.43 WIL-51 791.044
2447597.622 310575.126 771.91832 0.33 WIL-51 791.044
2447597.622 310575.126 771.64608 0.28 WIL-51 791.044
2447597.622 310575.126 771.37712 0.16 WIL-51 791.044
2447597.622 310575.126 771.10816 0.52 WIL-51 791.044
2447597.622 310575.126 770.83592 0.48 WIL-51 791.044
2447597.622 310575.126 770.56696 0.86 WIL-51 791.044
2447597.622 310575.126 770.29472 0.99 WIL-51 791.044
2447597.622 310575.126 770.05528 1.23 WIL-51 791.044
2447597.622 310575.126 769.78304 0.81 WIL-51 791.044
2447597.622 310575.126 769.51408 1.28 WIL-51 791.044
2447597.622 310575.126 769.23856 0.46 WIL-51 791.044
2447597.622 310575.126 769.01552 0.2 WIL-51 791.044
2447597.622 310575.126 768.77608 0.69 WIL-51 791.044
2447597.622 310575.126 768.48416 3.91 WIL-51 791.044
2447597.622 310575.126 768.24144 3.4 WIL-51 791.044
2447597.622 310575.126 768.002 1.74 WIL-51 791.044
2447597.622 310575.126 767.86096 2.48 WIL-51 791.044
2447610.795 310643.819 791.54 -0.28 WIL-52 791.54
2447610.795 310643.819 791.27432 1.36 WIL-52 791.54
2447610.795 310643.819 790.96928 0.03 WIL-52 791.54
2447610.795 310643.819 790.67408 -0.02 WIL-52 791.54
2447610.795 310643.819 790.3756 0.11 WIL-52 791.54
2447610.795 310643.819 790.15256 -0.12 WIL-52 791.54
2447610.795 310643.819 789.87048 -0.42 WIL-52 791.54
2447610.795 310643.819 789.58512 -0.34 WIL-52 791.54
2447610.795 310643.819 789.30304 -0.26 WIL-52 791.54
2447610.795 310643.819 789.06032 -0.14 WIL-52 791.54
2447610.795 310643.819 788.7848 -0.04 WIL-52 791.54
2447610.795 310643.819 788.50928 -0.2 WIL-52 791.54
2447610.795 310643.819 788.28624 -0.11 WIL-52 791.54
2447610.795 310643.819 788.02712 -0.11 WIL-52 791.54
2447610.795 310643.819 787.74504 -0.28 WIL-52 791.54
2447610.795 310643.819 787.4728 -0.2 WIL-52 791.54
2447610.795 310643.819 787.19072 -0.56 WIL-52 791.54
2447610.795 310643.819 786.90864 -0.38 WIL-52 791.54
2447610.795 310643.819 786.66264 -0.14 WIL-52 791.54
2447610.795 310643.819 786.38384 -0.25 WIL-52 791.54
2447610.795 310643.819 786.0952 -0.42 WIL-52 791.54
2447610.795 310643.819 785.8164 -0.11 WIL-52 791.54
2447610.795 310643.819 785.5376 -0.13 WIL-52 791.54
2447610.795 310643.819 785.25224 1.14 WIL-52 791.54

2447610.795 310643.819 784.96688 5.19 WIL-52 791.54
2447610.795 310643.819 784.68152 13.07 WIL-52 791.54
2447610.795 310643.819 784.39288 10.14 WIL-52 791.54
2447610.795 310643.819 784.10752 17.76 WIL-52 791.54
2447610.795 310643.819 783.8156 18.93 WIL-52 791.54
2447610.795 310643.819 783.5204 19.41 WIL-52 791.54
2447610.795 310643.819 783.22848 56.34 WIL-52 791.54
2447610.795 310643.819 782.93656 21.68 WIL-52 791.54
2447610.795 310643.819 782.66432 30.58 WIL-52 791.54
2447610.795 310643.819 782.36912 8.46 WIL-52 791.54
2447610.795 310643.819 782.07064 10.63 WIL-52 791.54
2447610.795 310643.819 781.782 16.11 WIL-52 791.54
2447610.795 310643.819 781.5196 6.26 WIL-52 791.54
2447610.795 310643.819 781.26048 13.49 WIL-52 791.54
2447610.795 310643.819 780.9948 9.5 WIL-52 791.54
2447610.795 310643.819 780.7324 3.17 WIL-52 791.54
2447610.795 310643.819 780.46672 2.02 WIL-52 791.54
2447610.795 310643.819 780.20104 6.18 WIL-52 791.54
2447610.795 310643.819 779.97144 4.81 WIL-52 791.54
2447610.795 310643.819 779.72544 1.56 WIL-52 791.54
2447610.795 310643.819 779.45976 2.85 WIL-52 791.54
2447610.795 310643.819 779.16456 2.13 WIL-52 791.54
2447610.795 310643.819 778.85624 2.78 WIL-52 791.54
2447610.795 310643.819 778.60368 1.07 WIL-52 791.54
2447610.795 310643.819 778.35112 0.05 WIL-52 791.54
2447610.795 310643.819 778.174 -0.3 WIL-52 791.54
2447664.092 310635.827 787.86 0.54 WIL-53 787.86
2447664.092 310635.827 787.56808 0.22 WIL-53 787.86
2447664.092 310635.827 787.28928 0.29 WIL-53 787.86
2447664.092 310635.827 787.04656 0.45 WIL-53 787.86
2447664.092 310635.827 786.76776 0.17 WIL-53 787.86
2447664.092 310635.827 786.48896 0.15 WIL-53 787.86
2447664.092 310635.827 786.2036 0.17 WIL-53 787.86
2447664.092 310635.827 785.91496 0.04 WIL-53 787.86
2447664.092 310635.827 785.62632 0.09 WIL-53 787.86
2447664.092 310635.827 785.38688 -0.08 WIL-53 787.86
2447664.092 310635.827 785.11792 0.18 WIL-53 787.86
2447664.092 310635.827 784.826 0.21 WIL-53 787.86
2447664.092 310635.827 784.53736 0.18 WIL-53 787.86
2447664.092 310635.827 784.24872 0.29 WIL-53 787.86
2447664.092 310635.827 783.99616 0.39 WIL-53 787.86
2447664.092 310635.827 783.70424 0.21 WIL-53 787.86
2447664.092 310635.827 783.4156 0.01 WIL-53 787.86
2447664.092 310635.827 783.12696 0.13 WIL-53 787.86
2447664.092 310635.827 782.83504 -0.09 WIL-53 787.86
2447664.092 310635.827 782.5464 -0.22 WIL-53 787.86
2447664.092 310635.827 782.28728 -0.09 WIL-53 787.86
2447664.092 310635.827 782.06424 0.04 WIL-53 787.86
2447664.092 310635.827 781.78216 -0.23 WIL-53 787.86
2447664.092 310635.827 781.47384 -0.39 WIL-53 787.86
2447664.092 310635.827 781.17208 -0.52 WIL-53 787.86
2447664.092 310635.827 780.87688 -0.45 WIL-53 787.86
2447664.092 310635.827 780.59152 -0.61 WIL-53 787.86
2447664.092 310635.827 780.30944 -0.53 WIL-53 787.86
2447664.092 310635.827 780.06016 -0.44 WIL-53 787.86
2447664.092 310635.827 779.7748 1.38 WIL-53 787.86
2447664.092 310635.827 779.45664 -0.18 WIL-53 787.86
2447664.092 310635.827 779.17456 5.56 WIL-53 787.86
2447664.092 310635.827 778.87608 5.56 WIL-53 787.86
2447664.092 310635.827 778.60384 0.44 WIL-53 787.86
2447664.092 310635.827 778.32832 1.98 WIL-53 787.86
2447664.092 310635.827 778.04952 4.85 WIL-53 787.86
2447664.092 310635.827 777.77072 5.72 WIL-53 787.86
2447664.092 310635.827 777.49192 8.07 WIL-53 787.86
2447664.092 310635.827 777.21312 14.45 WIL-53 787.86
2447664.092 310635.827 776.93104 4.57 WIL-53 787.86
2447664.092 310635.827 776.61288 12.98 WIL-53 787.86
2447664.092 310635.827 776.3308 13.74 WIL-53 787.86
2447664.092 310635.827 776.04872 3.36 WIL-53 787.86
2447664.092 310635.827 775.7732 0.91 WIL-53 787.86
2447664.092 310635.827 775.49112 1.41 WIL-53 787.86
2447664.092 310635.827 775.20248 0.9 WIL-53 787.86
2447664.092 310635.827 774.93024 1.55 WIL-53 787.86
2447664.092 310635.827 774.66128 2 WIL-53 787.86
2447664.092 310635.827 774.39232 2.54 WIL-53 787.86
2447664.092 310635.827 774.15944 3.18 WIL-53 787.86
2447664.092 310635.827 773.85768 1.95 WIL-53 787.86
2447664.092 310635.827 773.6248 3.06 WIL-53 787.86
2447664.092 310635.827 773.35256 0.13 WIL-53 787.86
2447664.092 310635.827 773.08688 0.64 WIL-53 787.86
2447664.092 310635.827 772.81464 0.88 WIL-53 787.86
2447664.092 310635.827 772.58504 1.73 WIL-53 787.86
2447664.092 310635.827 772.33248 -0.37 WIL-53 787.86
2447664.092 310635.827 772.07008 0.24 WIL-53 787.86
2447664.092 310635.827 771.81096 -0.1 WIL-53 787.86
2447664.092 310635.827 771.55184 -0.11 WIL-53 787.86
2447664.092 310635.827 771.28616 0.98 WIL-53 787.86
2447664.092 310635.827 771.02704 5.83 WIL-53 787.86
2447664.092 310635.827 770.76464 6.37 WIL-53 787.86
2447664.092 310635.827 770.50224 12.94 WIL-53 787.86
2447664.092 310635.827 770.26936 1.62 WIL-53 787.86
2447664.092 310635.827 770.00696 0.94 WIL-53 787.86
2447664.092 310635.827 769.71176 -0.62 WIL-53 787.86
2447664.092 310635.827 769.47888 0.16 WIL-53 787.86
2447664.092 310635.827 769.22632 0.17 WIL-53 787.86
2447664.092 310635.827 768.92456 -0.36 WIL-53 787.86
2447664.092 310635.827 768.69824 -1.03 WIL-53 787.86
2447664.092 310635.827 768.46864 -0.97 WIL-53 787.86
2447664.092 310635.827 768.2128 -2.44 WIL-53 787.86
2447664.092 310635.827 767.94712 -1.79 WIL-53 787.86
2447664.092 310635.827 767.688 -2 WIL-53 787.86
2447664.092 310635.827 767.4256 -0.42 WIL-53 787.86

```
2447664.092 310635.827 767.1632 -0.55 WIL-53 787.86
2447664.092 310635.827 766.9008 -2.7 WIL-53 787.86
2447664.092 310635.827 766.6384 -2.08 WIL-53 787.86
2447664.092 310635.827 766.37272 -0.22 WIL-53 787.86
2447664.092 310635.827 766.10704 -1.97 WIL-53 787.86
2447664.092 310635.827 765.82168 -2.2 WIL-53 787.86
2447664.092 310635.827 765.56584 0.38 WIL-53 787.86
2447664.092 310635.827 765.31 0.28 WIL-53 787.86
2447664.092 310635.827 765.01808 -2.55 WIL-53 787.86
2447664.092 310635.827 764.75568 -3.25 WIL-53 787.86
2447664.092 310635.827 764.49328 -0.18 WIL-53 787.86
2447664.092 310635.827 764.24072 -2.88 WIL-53 787.86
2447664.092 310635.827 763.97504 0.18 WIL-53 787.86
2447664.092 310635.827 763.71264 -2.04 WIL-53 787.86
2447664.092 310635.827 763.45352 -3.09 WIL-53 787.86
2447664.092 310635.827 763.13536 -1.48 WIL-53 787.86
2447664.092 310635.827 762.8828 -2.14 WIL-53 787.86
2447664.092 310635.827 762.65976 -2.51 WIL-53 787.86
2447664.092 310635.827 762.42032 -3.82 WIL-53 787.86
2447664.092 310635.827 762.1612 -4.49 WIL-53 787.86
2447664.092 310635.827 761.90208 -4.19 WIL-53 787.86
2447664.092 310635.827 761.64296 -3.84 WIL-53 787.86
2447664.092 310635.827 761.38056 -3.17 WIL-53 787.86
2447664.092 310635.827 761.15096 -4.24 WIL-53 787.86
2447664.092 310635.827 760.90496 -0.97 WIL-53 787.86
2447664.092 310635.827 760.65568 -1.7 WIL-53 787.86
2447664.092 310635.827 760.4064 -1.68 WIL-53 787.86
2447664.092 310635.827 760.15712 -2.43 WIL-53 787.86
2447664.092 310635.827 759.91112 -1.97 WIL-53 787.86
2447664.092 310635.827 759.65856 -2.69 WIL-53 787.86
2447664.092 310635.827 759.38632 -4.74 WIL-53 787.86
2447664.092 310635.827 759.14032 -3.78 WIL-53 787.86
2447664.092 310635.827 758.8976 -1.86 WIL-53 787.86
2447664.092 310635.827 758.65816 -1.99 WIL-53 787.86
2447664.092 310635.827 758.35312 -2.21 WIL-53 787.86
2447664.092 310635.827 758.09072 -2.58 WIL-53 787.86
2447664.092 310635.827 757.80536 -1.99 WIL-53 787.86
2447664.092 310635.827 757.52656 -2.19 WIL-53 787.86
2447664.092 310635.827 757.25104 -1.02 WIL-53 787.86
2447664.092 310635.827 757.01488 -2.39 WIL-53 787.86
2447664.092 310635.827 756.75904 -1.73 WIL-53 787.86
2447664.092 310635.827 756.49992 -2.83 WIL-53 787.86
2447664.092 310635.827 756.2244 -1.75 WIL-53 787.86
2447664.092 310635.827 755.97512 -2.2 WIL-53 787.86
2447664.092 310635.827 755.71272 -3.84 WIL-53 787.86
2447664.092 310635.827 755.46016 -3.66 WIL-53 787.86
2447664.092 310635.827 755.21088 -3 WIL-53 787.86
2447664.092 310635.827 754.95832 -1.16 WIL-53 787.86
2447664.092 310635.827 754.70576 -3.58 WIL-53 787.86
2447664.092 310635.827 754.48272 -3.11 WIL-53 787.86
2447664.092 310635.827 754.22688 -4.01 WIL-53 787.86
2447664.092 310635.827 753.96448 -0.31 WIL-53 787.86
2447664.092 310635.827 753.71192 -4.07 WIL-53 787.86
2447664.092 310635.827 753.54792 -1.43 WIL-53 787.86
2447682.167 310671.867 802.011 0.32 WIL-54 802.011
2447682.167 310671.867 801.71908 0.62 WIL-54 802.011
2447682.167 310671.867 801.35172 0.59 WIL-54 802.011
2447682.167 310671.867 801.11228 0.36 WIL-54 802.011
2447682.167 310671.867 800.8794 0.52 WIL-54 802.011
2447682.167 310671.867 800.60388 0.28 WIL-54 802.011
2447682.167 310671.867 800.34804 0.39 WIL-54 802.011
2447682.167 310671.867 800.09876 0.37 WIL-54 802.011
2447682.167 310671.867 799.77732 0.83 WIL-54 802.011
2447682.167 310671.867 799.49524 0.88 WIL-54 802.011
2447682.167 310671.867 799.26892 0.88 WIL-54 802.011
2447682.167 310671.867 799.01308 1.12 WIL-54 802.011
2447682.167 310671.867 798.74412 1.44 WIL-54 802.011
2447682.167 310671.867 798.4686 1.13 WIL-54 802.011
2447682.167 310671.867 798.18652 1.12 WIL-54 802.011
2447682.167 310671.867 797.89132 1.13 WIL-54 802.011
2447682.167 310671.867 797.60924 1.24 WIL-54 802.011
2447682.167 310671.867 797.33044 1.08 WIL-54 802.011
2447682.167 310671.867 797.08772 0.97 WIL-54 802.011
2447682.167 310671.867 796.80892 0.97 WIL-54 802.011
2447682.167 310671.867 796.52684 1.04 WIL-54 802.011
2447682.167 310671.867 796.24804 0.94 WIL-54 802.011
2447682.167 310671.867 796.00204 -0.31 WIL-54 802.011
2447682.167 310671.867 795.74292 0.05 WIL-54 802.011
2447682.167 310671.867 795.47396 0.12 WIL-54 802.011
2447682.167 310671.867 795.23452 -0.58 WIL-54 802.011
2447682.167 310671.867 794.959 -0.38 WIL-54 802.011
2447682.167 310671.867 794.68348 -0.4 WIL-54 802.011
2447682.167 310671.867 794.40796 -0.33 WIL-54 802.011
2447682.167 310671.867 794.12916 -0.02 WIL-54 802.011
2447682.167 310671.867 793.84708 -0.29 WIL-54 802.011
2447682.167 310671.867 793.565 -1.15 WIL-54 802.011
2447682.167 310671.867 793.28292 0.81 WIL-54 802.011
2447682.167 310671.867 793.0074 1.43 WIL-54 802.011
2447682.167 310671.867 792.78436 1 WIL-54 802.011
2447682.167 310671.867 792.49572 1.52 WIL-54 802.011
2447682.167 310671.867 792.22348 0.22 WIL-54 802.011
2447682.167 310671.867 791.94796 -0.09 WIL-54 802.011
2447682.167 310671.867 791.66916 -0.99 WIL-54 802.011
2447682.167 310671.867 791.42316 -1.22 WIL-54 802.011
2447682.167 310671.867 791.14108 -0.72 WIL-54 802.011
2447682.167 310671.867 790.90492 1.68 WIL-54 802.011
2447682.167 310671.867 790.613 1.35 WIL-54 802.011
2447682.167 310671.867 790.3178 1.72 WIL-54 802.011
2447682.167 310671.867 790.0226 1.3 WIL-54 802.011
2447682.167 310671.867 789.73068 1.72 WIL-54 802.011
2447682.167 310671.867 789.4322 3.1 WIL-54 802.011
2447682.167 310671.867 789.16324 4.67 WIL-54 802.011
```

```
2447682.167 310671.867 788.88444 3.08 WIL-54 802.011
2447682.167 310671.867 788.60236 2.87 WIL-54 802.011
2447682.167 310671.867 788.32028 1.59 WIL-54 802.011
2447682.167 310671.867 788.04148 4.09 WIL-54 802.011
2447682.167 310671.867 787.76268 3.7 WIL-54 802.011
2447682.167 310671.867 787.48716 4.53 WIL-54 802.011
2447682.167 310671.867 787.21164 4.6 WIL-54 802.011
2447682.167 310671.867 786.93612 0.95 WIL-54 802.011
2447682.167 310671.867 786.65732 2.34 WIL-54 802.011
2447682.167 310671.867 786.3818 1.79 WIL-54 802.011
2447682.167 310671.867 786.08004 2.59 WIL-54 802.011
2447682.167 310671.867 785.80124 3.89 WIL-54 802.011
2447682.167 310671.867 785.51916 4.29 WIL-54 802.011
2447682.167 310671.867 785.28628 3.47 WIL-54 802.011
2447682.167 310671.867 785.00748 3.91 WIL-54 802.011
2447682.167 310671.867 784.72212 2.61 WIL-54 802.011
2447682.167 310671.867 784.43348 0.94 WIL-54 802.011
2447682.167 310671.867 784.14812 1.39 WIL-54 802.011
2447682.167 310671.867 783.86276 1.54 WIL-54 802.011
2447682.167 310671.867 783.58068 1.7 WIL-54 802.011
2447682.167 310671.867 783.29532 1.62 WIL-54 802.011
2447682.167 310671.867 783.01652 1.35 WIL-54 802.011
2447682.167 310671.867 782.73772 1.08 WIL-54 802.011
2447682.167 310671.867 782.4622 1.26 WIL-54 802.011
2447682.167 310671.867 782.18996 2.56 WIL-54 802.011
2447682.167 310671.867 781.91444 1.75 WIL-54 802.011
2447682.167 310671.867 781.6422 2.78 WIL-54 802.011
2447682.167 310671.867 781.36668 4.56 WIL-54 802.011
2447682.167 310671.867 781.09116 3.51 WIL-54 802.011
2447682.167 310671.867 780.81236 1.2 WIL-54 802.011
2447682.167 310671.867 780.53356 5.17 WIL-54 802.011
2447682.167 310671.867 780.25476 2.45 WIL-54 802.011
2447682.167 310671.867 779.97596 4.18 WIL-54 802.011
2447682.167 310671.867 779.72668 1.01 WIL-54 802.011
2447682.167 310671.867 779.47412 1.02 WIL-54 802.011
2447682.167 310671.867 779.21172 0.86 WIL-54 802.011
2447682.167 310671.867 778.95588 0.38 WIL-54 802.011
2447682.167 310671.867 778.68364 0.77 WIL-54 802.011
2447682.167 310671.867 778.3786 1.66 WIL-54 802.011
2447682.167 310671.867 778.11948 0.92 WIL-54 802.011
2447682.167 310671.867 777.89316 1.04 WIL-54 802.011
2447682.167 310671.867 777.6078 1.31 WIL-54 802.011
2447682.167 310671.867 777.3126 3.9 WIL-54 802.011
2447682.167 310671.867 777.03052 6.03 WIL-54 802.011
2447682.167 310671.867 776.74844 11.47 WIL-54 802.011
2447682.167 310671.867 776.46964 3.75 WIL-54 802.011
2447682.167 310671.867 776.22692 0.8 WIL-54 802.011
2447682.167 310671.867 775.95468 -0.28 WIL-54 802.011
2447682.167 310671.867 775.67916 -0.3 WIL-54 802.011
2447682.167 310671.867 775.39708 -0.59 WIL-54 802.011
2447682.167 310671.867 775.0986 0.55 WIL-54 802.011
2447682.167 310671.867 774.86572 -0.32 WIL-54 802.011
2447682.167 310671.867 774.62628 0.64 WIL-54 802.011
2447682.167 310671.867 774.61644 0.43 WIL-54 802.011
2447650.319 310554.047 791.539 1.65 WIL-55 791.539
2447650.319 310554.047 791.293 2.73 WIL-55 791.539
2447650.319 310554.047 791.0142 1.19 WIL-55 791.539
2447650.319 310554.047 790.7354 1.19 WIL-55 791.539
2447650.319 310554.047 790.49268 1 WIL-55 791.539
2447650.319 310554.047 790.20404 2.05 WIL-55 791.539
2447650.319 310554.047 789.96788 3.06 WIL-55 791.539
2447650.319 310554.047 789.7022 1.88 WIL-55 791.539
2447650.319 310554.047 789.40044 2.16 WIL-55 791.539
2447650.319 310554.047 789.12492 2.79 WIL-55 791.539
2447650.319 310554.047 788.90188 2.45 WIL-55 791.539
2447650.319 310554.047 788.64276 3.52 WIL-55 791.539
2447650.319 310554.047 788.41316 2.66 WIL-55 791.539
2447650.319 310554.047 788.18356 2.94 WIL-55 791.539
2447650.319 310554.047 787.92116 3.59 WIL-55 791.539
2447650.319 310554.047 787.63908 3.6 WIL-55 791.539
2447650.319 310554.047 787.36684 3.1 WIL-55 791.539
2447650.319 310554.047 787.09132 2.54 WIL-55 791.539
2447650.319 310554.047 786.8158 3.38 WIL-55 791.539
2447650.319 310554.047 786.57308 5.71 WIL-55 791.539
2447650.319 310554.047 786.30084 4.74 WIL-55 791.539
2447650.319 310554.047 786.02204 6.96 WIL-55 791.539
2447650.319 310554.047 785.78916 5.99 WIL-55 791.539
2447650.319 310554.047 785.471 8 WIL-55 791.539
2447650.319 310554.047 785.19876 10.78 WIL-55 791.539
2447650.319 310554.047 784.92652 16.96 WIL-55 791.539
2447650.319 310554.047 784.651 14.46 WIL-55 791.539
2447650.319 310554.047 784.3722 8.83 WIL-55 791.539
2447650.319 310554.047 784.0934 8.75 WIL-55 791.539
2447650.319 310554.047 783.81132 6.03 WIL-55 791.539
2447650.319 310554.047 783.52924 11.27 WIL-55 791.539
2447650.319 310554.047 783.24716 3.96 WIL-55 791.539
2447650.319 310554.047 782.96508 6.05 WIL-55 791.539
2447650.319 310554.047 782.683 4.95 WIL-55 791.539
2447650.319 310554.047 782.42388 3.06 WIL-55 791.539
2447650.319 310554.047 782.14836 2.14 WIL-55 791.539
2447650.319 310554.047 781.86956 2.38 WIL-55 791.539
2447650.319 310554.047 781.58748 4.21 WIL-55 791.539
2447650.319 310554.047 781.3054 29.32 WIL-55 791.539
2447650.319 310554.047 781.02332 11.84 WIL-55 791.539
2447650.319 310554.047 780.73796 5.46 WIL-55 791.539
2447650.319 310554.047 780.45588 7.62 WIL-55 791.539
2447650.319 310554.047 780.16724 10.65 WIL-55 791.539
2447650.319 310554.047 779.88516 10.5 WIL-55 791.539
2447650.319 310554.047 779.59324 4.67 WIL-55 791.539
2447650.319 310554.047 779.34396 11.11 WIL-55 791.539
2447650.319 310554.047 779.0586 13.09 WIL-55 791.539
2447650.319 310554.047 778.77652 5.08 WIL-55 791.539
```

2447650.319 310554.047 778.50428 10.52 WIL-55 791.539
2447650.319 310554.047 778.23532 8.42 WIL-55 791.539
2447650.319 310554.047 777.96636 55.44 WIL-55 791.539
2447650.319 310554.047 777.69084 17.78 WIL-55 791.539
2447650.319 310554.047 777.4186 12.19 WIL-55 791.539
2447650.319 310554.047 777.14308 20.01 WIL-55 791.539
2447650.319 310554.047 776.87084 21.93 WIL-55 791.539
2447650.319 310554.047 776.58548 25.55 WIL-55 791.539
2447650.319 310554.047 776.30996 12.75 WIL-55 791.539
2447650.319 310554.047 776.01148 50.11 WIL-55 791.539
2447650.319 310554.047 775.75236 33.17 WIL-55 791.539
2447650.319 310554.047 775.42436 4.27 WIL-55 791.539
2447650.319 310554.047 775.14228 2.17 WIL-55 791.539
2447650.319 310554.047 774.87988 4.5 WIL-55 791.539
2447650.319 310554.047 774.61092 17.66 WIL-55 791.539
2447650.319 310554.047 774.33868 11.2 WIL-55 791.539
2447650.319 310554.047 774.06644 1.04 WIL-55 791.539
2447650.319 310554.047 773.79748 1.28 WIL-55 791.539
2447650.319 310554.047 773.51868 1.65 WIL-55 791.539
2447650.319 310554.047 773.24316 2.2 WIL-55 791.539
2447650.319 310554.047 772.98732 3.02 WIL-55 791.539
2447650.319 310554.047 772.73148 2.03 WIL-55 791.539
2447650.319 310554.047 772.43956 2.04 WIL-55 791.539
2447650.319 310554.047 772.14436 2.94 WIL-55 791.539
2447650.319 310554.047 771.87212 2.54 WIL-55 791.539
2447650.319 310554.047 771.60316 1.68 WIL-55 791.539
2447650.319 310554.047 771.3342 2.37 WIL-55 791.539
2447650.319 310554.047 771.06524 2.54 WIL-55 791.539
2447650.319 310554.047 770.82908 2.01 WIL-55 791.539
2447650.319 310554.047 770.55684 5.6 WIL-55 791.539
2447650.319 310554.047 770.29116 2.25 WIL-55 791.539
2447650.319 310554.047 770.055 2.99 WIL-55 791.539
2447650.319 310554.047 769.82212 19.76 WIL-55 791.539
2447650.319 310554.047 769.5794 27.8 WIL-55 791.539
2447650.319 310554.047 769.33668 11.7 WIL-55 791.539
2447650.319 310554.047 769.09068 81.12 WIL-55 791.539
2447650.319 310554.047 768.83812 73.21 WIL-55 791.539
2447650.319 310554.047 768.5954 4.65 WIL-55 791.539
2447650.319 310554.047 768.3494 2.77 WIL-55 791.539
2447650.319 310554.047 768.10012 11.82 WIL-55 791.539
2447650.319 310554.047 767.85412 18.83 WIL-55 791.539
2447650.319 310554.047 767.58188 24.2 WIL-55 791.539
2447650.319 310554.047 767.32932 11.47 WIL-55 791.539
2447650.319 310554.047 767.08004 24.52 WIL-55 791.539
2447650.319 310554.047 766.79468 28.91 WIL-55 791.539
2447650.319 310554.047 766.52244 18.22 WIL-55 791.539
2447650.319 310554.047 766.27316 53.4 WIL-55 791.539
2447650.319 310554.047 766.03044 52.95 WIL-55 791.539
2447650.319 310554.047 765.78772 13.26 WIL-55 791.539
2447650.319 310554.047 765.55156 13.44 WIL-55 791.539
2447650.319 310554.047 765.46956 5.76 WIL-55 791.539
2447688.346 310508.379 789.597 0.62 WIL-56 789.597
2447688.346 310508.379 789.27884 0.09 WIL-56 789.597
2447688.346 310508.379 789.04924 -0.03 WIL-56 789.597
2447688.346 310508.379 788.82292 0.25 WIL-56 789.597
2447688.346 310508.379 788.5802 0.71 WIL-56 789.597
2447688.346 310508.379 788.3342 0.45 WIL-56 789.597
2447688.346 310508.379 788.1046 0.47 WIL-56 789.597
2447688.346 310508.379 787.85532 0.39 WIL-56 789.597
2447688.346 310508.379 787.5634 0.23 WIL-56 789.597
2447688.346 310508.379 787.2682 0.46 WIL-56 789.597
2447688.346 310508.379 787.00908 0.39 WIL-56 789.597
2447688.346 310508.379 786.74996 0.8 WIL-56 789.597
2447688.346 310508.379 786.52692 0.72 WIL-56 789.597
2447688.346 310508.379 786.30388 0.69 WIL-56 789.597
2447688.346 310508.379 786.071 0.59 WIL-56 789.597
2447688.346 310508.379 785.84796 0.44 WIL-56 789.597
2447688.346 310508.379 785.60852 0.77 WIL-56 789.597
2447688.346 310508.379 785.44124 0.72 WIL-56 789.597
2447711.866 310585.081 789.295 1.14 WIL-57 789.295
2447711.866 310585.081 789.02276 1.63 WIL-57 789.295
2447711.866 310585.081 788.74068 1.56 WIL-57 789.295
2447711.866 310585.081 788.48484 1.57 WIL-57 789.295
2447711.866 310585.081 788.2454 1.88 WIL-57 789.295
2447711.866 310585.081 787.98956 1.9 WIL-57 789.295
2447711.866 310585.081 787.72716 1.85 WIL-57 789.295
2447711.866 310585.081 787.46148 1.76 WIL-57 789.295
2447711.866 310585.081 787.18924 1.64 WIL-57 789.295
2447711.866 310585.081 786.9498 1.66 WIL-57 789.295
2447711.866 310585.081 786.6546 1.66 WIL-57 789.295
2447711.866 310585.081 786.36268 1.56 WIL-57 789.295
2447711.866 310585.081 786.07076 1.54 WIL-57 789.295
2447711.866 310585.081 785.77884 1.62 WIL-57 789.295
2447711.866 310585.081 785.51972 1.65 WIL-57 789.295
2447711.866 310585.081 785.2278 1.78 WIL-57 789.295
2447711.866 310585.081 784.94244 1.88 WIL-57 789.295
2447711.866 310585.081 784.64724 2.81 WIL-57 789.295
2447711.866 310585.081 784.35204 3.14 WIL-57 789.295
2447711.866 310585.081 784.129 2.9 WIL-57 789.295
2447711.866 310585.081 783.8666 2.08 WIL-57 789.295
2447711.866 310585.081 783.63044 2.07 WIL-57 789.295
2447711.866 310585.081 783.3418 1.96 WIL-57 789.295
2447711.866 310585.081 783.04004 1.83 WIL-57 789.295
2447711.866 310585.081 782.73828 1.92 WIL-57 789.295
2447711.866 310585.081 782.43324 3.16 WIL-57 789.295
2447711.866 310585.081 782.20364 2.12 WIL-57 789.295
2447711.866 310585.081 781.90516 1.89 WIL-57 789.295
2447711.866 310585.081 781.6034 2.08 WIL-57 789.295
2447711.866 310585.081 781.34428 1.84 WIL-57 789.295
2447711.866 310585.081 781.0622 2.79 WIL-57 789.295
2447711.866 310585.081 780.78996 2.42 WIL-57 789.295
2447711.866 310585.081 780.51444 3.04 WIL-57 789.295

```
2447711.866 310585.081 780.26844 3.99 WIL-57 789.295
2447711.866 310585.081 780.01588 3.95 WIL-57 789.295
2447711.866 310585.081 779.75676 2.26 WIL-57 789.295
2447711.866 310585.081 779.49436 4.36 WIL-57 789.295
2447711.866 310585.081 779.23524 3.63 WIL-57 789.295
2447711.866 310585.081 778.97284 2.8 WIL-57 789.295
2447711.866 310585.081 778.71372 3.48 WIL-57 789.295
2447711.866 310585.081 778.45132 5.21 WIL-57 789.295
2447711.866 310585.081 778.22172 4.28 WIL-57 789.295
2447711.866 310585.081 777.92652 2.27 WIL-57 789.295
2447711.866 310585.081 777.6674 2.14 WIL-57 789.295
2447711.866 310585.081 777.405 2.96 WIL-57 789.295
2447711.866 310585.081 777.16228 2.8 WIL-57 789.295
2447711.866 310585.081 776.90972 1.99 WIL-57 789.295
2447711.866 310585.081 776.6834 3.61 WIL-57 789.295
2447711.866 310585.081 776.39804 2.02 WIL-57 789.295
2447711.866 310585.081 776.13892 2.1 WIL-57 789.295
2447711.866 310585.081 775.91588 2.37 WIL-57 789.295
2447711.866 310585.081 775.66332 3.55 WIL-57 789.295
2447711.866 310585.081 775.39764 2.32 WIL-57 789.295
2447711.866 310585.081 775.15492 4 WIL-57 789.295
2447711.866 310585.081 774.84988 3.62 WIL-57 789.295
2447711.866 310585.081 774.60716 2.86 WIL-57 789.295
2447711.866 310585.081 774.36772 3.42 WIL-57 789.295
2447711.866 310585.081 774.20372 5.13 WIL-57 789.295
2447785.755 310619.399 797.973 0.16 WIL-58 797.973
2447785.755 310619.399 797.74668 1.12 WIL-58 797.973
2447785.755 310619.399 797.48756 0.91 WIL-58 797.973
2447785.755 310619.399 797.24812 0.84 WIL-58 797.973
2447785.755 310619.399 797.00212 0.93 WIL-58 797.973
2447785.755 310619.399 796.75284 0.98 WIL-58 797.973
2447785.755 310619.399 796.50028 1.07 WIL-58 797.973
2447785.755 310619.399 796.24444 1.07 WIL-58 797.973
2447785.755 310619.399 795.9886 1.07 WIL-58 797.973
2447785.755 310619.399 795.72292 1.09 WIL-58 797.973
2447785.755 310619.399 795.49004 0.98 WIL-58 797.973
2447785.755 310619.399 795.24404 0.99 WIL-58 797.973
2447785.755 310619.399 794.98492 1.04 WIL-58 797.973
2447785.755 310619.399 794.72252 1.02 WIL-58 797.973
2447785.755 310619.399 794.45684 1.06 WIL-58 797.973
2447785.755 310619.399 794.19116 0.97 WIL-58 797.973
2447785.755 310619.399 793.92548 0.94 WIL-58 797.973
2447785.755 310619.399 793.66308 0.96 WIL-58 797.973
2447785.755 310619.399 793.42692 0.94 WIL-58 797.973
2447785.755 310619.399 793.1678 0.96 WIL-58 797.973
2447785.755 310619.399 792.91852 0.96 WIL-58 797.973
2447785.755 310619.399 792.66596 1.04 WIL-58 797.973
2447785.755 310619.399 792.41668 1.03 WIL-58 797.973
2447785.755 310619.399 792.1674 1.04 WIL-58 797.973
2447785.755 310619.399 791.91156 1.27 WIL-58 797.973
2447785.755 310619.399 791.64588 0.81 WIL-58 797.973
2447785.755 310619.399 791.37692 0.83 WIL-58 797.973
2447785.755 310619.399 791.14076 0.96 WIL-58 797.973
2447785.755 310619.399 790.86196 0.88 WIL-58 797.973
2447785.755 310619.399 790.58972 1.02 WIL-58 797.973
2447785.755 310619.399 790.31748 0.94 WIL-58 797.973
2447785.755 310619.399 790.04196 1.18 WIL-58 797.973
2447785.755 310619.399 789.76644 1.1 WIL-58 797.973
2447785.755 310619.399 789.48436 1.19 WIL-58 797.973
2447785.755 310619.399 789.20884 1.06 WIL-58 797.973
2447785.755 310619.399 788.9202 1.48 WIL-58 797.973
2447785.755 310619.399 788.64468 1.57 WIL-58 797.973
2447785.755 310619.399 788.36588 1.89 WIL-58 797.973
2447785.755 310619.399 788.08708 2.59 WIL-58 797.973
2447785.755 310619.399 787.8378 6.33 WIL-58 797.973
2447785.755 310619.399 787.51964 4.98 WIL-58 797.973
2447785.755 310619.399 787.24084 16.45 WIL-58 797.973
2447785.755 310619.399 786.95548 1.7 WIL-58 797.973
2447785.755 310619.399 786.67012 1.4 WIL-58 797.973
2447785.755 310619.399 786.38804 2.94 WIL-58 797.973
2447785.755 310619.399 786.13548 4.28 WIL-58 797.973
2447785.755 310619.399 785.90588 3.32 WIL-58 797.973
2447785.755 310619.399 785.6238 1.61 WIL-58 797.973
2447785.755 310619.399 785.30564 1.52 WIL-58 797.973
2447785.755 310619.399 785.05636 2.01 WIL-58 797.973
2447785.755 310619.399 784.76772 5.23 WIL-58 797.973
2447785.755 310619.399 784.4758 2.91 WIL-58 797.973
2447785.755 310619.399 784.19044 3.47 WIL-58 797.973
2447785.755 310619.399 783.9018 4.37 WIL-58 797.973
2447785.755 310619.399 783.61316 53.36 WIL-58 797.973
2447785.755 310619.399 783.32124 6.24 WIL-58 797.973
2447785.755 310619.399 783.0326 6.76 WIL-58 797.973
2447785.755 310619.399 782.78332 5.95 WIL-58 797.973
2447785.755 310619.399 782.56028 5.11 WIL-58 797.973
2447785.755 310619.399 782.28148 10.88 WIL-58 797.973
2447785.755 310619.399 781.99612 4.79 WIL-58 797.973
2447785.755 310619.399 781.74684 23.46 WIL-58 797.973
2447785.755 310619.399 781.42212 33.51 WIL-58 797.973
2447785.755 310619.399 781.13676 8.53 WIL-58 797.973
2447785.755 310619.399 780.8514 13.35 WIL-58 797.973
2447785.755 310619.399 780.56276 14.74 WIL-58 797.973
2447785.755 310619.399 780.3102 3.78 WIL-58 797.973
2447785.755 310619.399 780.02156 4.05 WIL-58 797.973
2447785.755 310619.399 779.69356 2.31 WIL-58 797.973
2447785.755 310619.399 779.4574 1.21 WIL-58 797.973
2447785.755 310619.399 779.1786 2.4 WIL-58 797.973
2447785.755 310619.399 778.89652 1.62 WIL-58 797.973
2447785.755 310619.399 778.61116 2 WIL-58 797.973
2447785.755 310619.399 778.35532 1.27 WIL-58 797.973
2447785.755 310619.399 778.06996 3.96 WIL-58 797.973
2447785.755 310619.399 777.7846 2.45 WIL-58 797.973
2447785.755 310619.399 777.49924 4.2 WIL-58 797.973
```

```
2447785.755 310619.399 777.2106 6.46 WIL-58 797.973
2447785.755 310619.399 776.92196 1.28 WIL-58 797.973
2447785.755 310619.399 776.63332 0.52 WIL-58 797.973
2447785.755 310619.399 776.34796 0.62 WIL-58 797.973
2447785.755 310619.399 776.10524 0.57 WIL-58 797.973
2447785.755 310619.399 775.81988 0.49 WIL-58 797.973
2447785.755 310619.399 775.52796 0.55 WIL-58 797.973
2447785.755 310619.399 775.23932 0.73 WIL-58 797.973
2447785.755 310619.399 774.9474 0.58 WIL-58 797.973
2447785.755 310619.399 774.65548 0.57 WIL-58 797.973
2447785.755 310619.399 774.36356 0.58 WIL-58 797.973
2447785.755 310619.399 774.06836 0.75 WIL-58 797.973
2447785.755 310619.399 773.76988 0.87 WIL-58 797.973
2447785.755 310619.399 773.47796 0.62 WIL-58 797.973
2447785.755 310619.399 773.21556 0.93 WIL-58 797.973
2447785.755 310619.399 772.98596 0.92 WIL-58 797.973
2447785.755 310619.399 772.69404 0.94 WIL-58 797.973
2447785.755 310619.399 772.4054 1.07 WIL-58 797.973
2447785.755 310619.399 772.12332 0.88 WIL-58 797.973
2447785.755 310619.399 771.84124 0.93 WIL-58 797.973
2447785.755 310619.399 771.56572 1.28 WIL-58 797.973
2447785.755 310619.399 771.28364 0.93 WIL-58 797.973
2447785.755 310619.399 771.00156 1 WIL-58 797.973
2447785.755 310619.399 770.72276 0.96 WIL-58 797.973
2447785.755 310619.399 770.4374 0.84 WIL-58 797.973
2447785.755 310619.399 770.15532 0.96 WIL-58 797.973
2447785.755 310619.399 769.90604 1.09 WIL-58 797.973
2447785.755 310619.399 769.62396 1.14 WIL-58 797.973
2447785.755 310619.399 769.40092 1.25 WIL-58 797.973
2447785.755 310619.399 769.13196 1.32 WIL-58 797.973
2447785.755 310619.399 768.84332 1 WIL-58 797.973
2447785.755 310619.399 768.58748 0.18 WIL-58 797.973
2447785.755 310619.399 768.29556 0.74 WIL-58 797.973
2447785.755 310619.399 768.00364 1.12 WIL-58 797.973
2447785.755 310619.399 767.71172 1.3 WIL-58 797.973
2447785.755 310619.399 767.41652 0.93 WIL-58 797.973
2447785.755 310619.399 767.1246 0.99 WIL-58 797.973
2447785.755 310619.399 766.8294 1.15 WIL-58 797.973
2447785.755 310619.399 766.5342 1.16 WIL-58 797.973
2447785.755 310619.399 766.25868 1.39 WIL-58 797.973
2447785.755 310619.399 765.9602 1.09 WIL-58 797.973
2447785.755 310619.399 765.66828 1.23 WIL-58 797.973
2447785.755 310619.399 765.37964 1.18 WIL-58 797.973
2447785.755 310619.399 765.1238 1.12 WIL-58 797.973
2447785.755 310619.399 764.83516 1.19 WIL-58 797.973
2447785.755 310619.399 764.54324 1.08 WIL-58 797.973
2447785.755 310619.399 764.25132 1.23 WIL-58 797.973
2447785.755 310619.399 763.95612 1.29 WIL-58 797.973
2447785.755 310619.399 763.67076 1.4 WIL-58 797.973
2447785.755 310619.399 763.37556 1.35 WIL-58 797.973
2447785.755 310619.399 763.123 1.33 WIL-58 797.973
2447785.755 310619.399 762.82452 1.08 WIL-58 797.973
2447785.755 310619.399 762.54244 1.43 WIL-58 797.973
2447785.755 310619.399 762.29316 1.33 WIL-58 797.973
2447785.755 310619.399 762.00452 1.51 WIL-58 797.973
2447785.755 310619.399 761.72244 1.16 WIL-58 797.973
2447785.755 310619.399 761.43708 1 WIL-58 797.973
2447785.755 310619.399 761.14844 1.15 WIL-58 797.973
2447785.755 310619.399 760.8598 1.14 WIL-58 797.973
2447785.755 310619.399 760.57116 1.23 WIL-58 797.973
2447785.755 310619.399 760.2858 1.37 WIL-58 797.973
2447785.755 310619.399 759.99388 1.41 WIL-58 797.973
2447785.755 310619.399 759.8594 0.89 WIL-58 797.973
2447767.531 310589.97 790.54 0.82 WIL-59 790.54
2447767.531 310589.97 790.31368 2.05 WIL-59 790.54
2447767.531 310589.97 790.02176 1.18 WIL-59 790.54
2447767.531 310589.97 789.72984 0.97 WIL-59 790.54
2447767.531 310589.97 789.4412 0.81 WIL-59 790.54
2447767.531 310589.97 789.18208 0.88 WIL-59 790.54
2447767.531 310589.97 788.95904 0.98 WIL-59 790.54
2447767.531 310589.97 788.66712 0.97 WIL-59 790.54
2447767.531 310589.97 788.37192 1 WIL-59 790.54
2447767.531 310589.97 788.08656 1.03 WIL-59 790.54
2447767.531 310589.97 787.82088 0.93 WIL-59 790.54
2447767.531 310589.97 787.52896 1 WIL-59 790.54
2447767.531 310589.97 787.25016 0.94 WIL-59 790.54
2447767.531 310589.97 787.00744 0.9 WIL-59 790.54
2447767.531 310589.97 786.69584 0.91 WIL-59 790.54
2447767.531 310589.97 786.44328 0.91 WIL-59 790.54
2447767.531 310589.97 786.19728 0.88 WIL-59 790.54
2447767.531 310589.97 785.94472 0.83 WIL-59 790.54
2447767.531 310589.97 785.69544 0.85 WIL-59 790.54
2447767.531 310589.97 785.38056 0.68 WIL-59 790.54
2447767.531 310589.97 785.128 0.98 WIL-59 790.54
2447767.531 310589.97 784.87216 0.86 WIL-59 790.54
2447767.531 310589.97 784.63272 0.95 WIL-59 790.54
2447767.531 310589.97 784.38016 0.88 WIL-59 790.54
2447767.531 310589.97 784.1276 0.85 WIL-59 790.54
2447767.531 310589.97 783.87832 0.84 WIL-59 790.54
2447767.531 310589.97 783.62248 0.84 WIL-59 790.54
2447767.531 310589.97 783.36664 0.78 WIL-59 790.54
2447767.531 310589.97 783.1436 0.76 WIL-59 790.54
2447767.531 310589.97 782.88448 0.77 WIL-59 790.54
2447767.531 310589.97 782.62864 0.7 WIL-59 790.54
2447767.531 310589.97 782.36952 0.64 WIL-59 790.54
2447767.531 310589.97 782.1104 0.69 WIL-59 790.54
2447767.531 310589.97 781.85128 0.71 WIL-59 790.54
2447767.531 310589.97 781.62824 0.74 WIL-59 790.54
2447767.531 310589.97 781.3724 0.71 WIL-59 790.54
2447767.531 310589.97 781.11328 0.66 WIL-59 790.54
2447767.531 310589.97 780.86728 0.74 WIL-59 790.54
2447767.531 310589.97 780.62456 0.74 WIL-59 790.54
```

```
2447767.531 310589.97 780.31624 0.69 WIL-59 790.54
2447767.531 310589.97 780.07024 0.69 WIL-59 790.54
2447767.531 310589.97 779.82424 0.71 WIL-59 790.54
2447767.531 310589.97 779.57168 0.75 WIL-59 790.54
2447767.531 310589.97 779.306 2.26 WIL-59 790.54
2447767.531 310589.97 779.04032 2.57 WIL-59 790.54
2447767.531 310589.97 778.77136 1.56 WIL-59 790.54
2447767.531 310589.97 778.5352 3.28 WIL-59 790.54
2447767.531 310589.97 778.25968 4.33 WIL-59 790.54
2447767.531 310589.97 777.99728 1.63 WIL-59 790.54
2447767.531 310589.97 777.7644 2.34 WIL-59 790.54
2447767.531 310589.97 777.49872 2.47 WIL-59 790.54
2447767.531 310589.97 777.22976 2.28 WIL-59 790.54
2447767.531 310589.97 776.9608 4.07 WIL-59 790.54
2447767.531 310589.97 776.68856 2.79 WIL-59 790.54
2447767.531 310589.97 776.4196 3.97 WIL-59 790.54
2447767.531 310589.97 776.14736 4.34 WIL-59 790.54
2447767.531 310589.97 775.8784 2.72 WIL-59 790.54
2447767.531 310589.97 775.60944 2.82 WIL-59 790.54
2447767.531 310589.97 775.30768 3.88 WIL-59 790.54
2447767.531 310589.97 775.06168 1.59 WIL-59 790.54
2447767.531 310589.97 774.8288 2.43 WIL-59 790.54
2447767.531 310589.97 774.55984 5.42 WIL-59 790.54
2447767.531 310589.97 774.29088 3.89 WIL-59 790.54
2447767.531 310589.97 774.02192 2.22 WIL-59 790.54
2447767.531 310589.97 773.75296 4.16 WIL-59 790.54
2447767.531 310589.97 773.48728 5.73 WIL-59 790.54
2447767.531 310589.97 773.24128 7.93 WIL-59 790.54
2447767.531 310589.97 772.97888 6.33 WIL-59 790.54
2447767.531 310589.97 772.70008 22.68 WIL-59 790.54
2447767.531 310589.97 772.42456 18.12 WIL-59 790.54
2447767.531 310589.97 772.14904 38.34 WIL-59 790.54
2447767.531 310589.97 771.89648 11.65 WIL-59 790.54
2447767.531 310589.97 771.61112 13.68 WIL-59 790.54
2447767.531 310589.97 771.34216 9.56 WIL-59 790.54
2447767.531 310589.97 771.06664 3.67 WIL-59 790.54
2447767.531 310589.97 770.78784 1.41 WIL-59 790.54
2447767.531 310589.97 770.52544 1.19 WIL-59 790.54
2447767.531 310589.97 770.2696 1.17 WIL-59 790.54
2447767.531 310589.97 770.0072 0.98 WIL-59 790.54
2447767.531 310589.97 769.7448 0.89 WIL-59 790.54
2447767.531 310589.97 769.5152 0.88 WIL-59 790.54
2447767.531 310589.97 769.23968 1.05 WIL-59 790.54
2447767.531 310589.97 768.9576 1.03 WIL-59 790.54
2447767.531 310589.97 768.6788 1.08 WIL-59 790.54
2447767.531 310589.97 768.40328 0.82 WIL-59 790.54
2447767.531 310589.97 768.12776 0.8 WIL-59 790.54
2447767.531 310589.97 767.84896 0.87 WIL-59 790.54
2447767.531 310589.97 767.56688 0.84 WIL-59 790.54
2447767.531 310589.97 767.32088 0.96 WIL-59 790.54
2447767.531 310589.97 767.0388 1.09 WIL-59 790.54
2447767.531 310589.97 766.75672 1.02 WIL-59 790.54
2447767.531 310589.97 766.47464 0.94 WIL-59 790.54
2447767.531 310589.97 766.19256 0.99 WIL-59 790.54
2447767.531 310589.97 765.91048 0.98 WIL-59 790.54
2447767.531 310589.97 765.6284 0.93 WIL-59 790.54
2447767.531 310589.97 765.34632 0.78 WIL-59 790.54
2447767.531 310589.97 765.12 1.05 WIL-59 790.54
2447767.531 310589.97 764.84448 1.05 WIL-59 790.54
2447767.531 310589.97 764.5624 0.9 WIL-59 790.54
2447767.531 310589.97 764.28032 0.87 WIL-59 790.54
2447767.531 310589.97 763.99824 1.01 WIL-59 790.54
2447767.531 310589.97 763.74896 1.04 WIL-59 790.54
2447767.531 310589.97 763.4636 1.02 WIL-59 790.54
2447767.531 310589.97 763.18152 0.98 WIL-59 790.54
2447767.531 310589.97 762.89616 1.03 WIL-59 790.54
2447767.531 310589.97 762.6108 1.01 WIL-59 790.54
2447767.531 310589.97 762.32544 1.21 WIL-59 790.54
2447767.531 310589.97 762.04664 1.26 WIL-59 790.54
2447767.531 310589.97 761.8236 1.1 WIL-59 790.54
2447767.531 310589.97 761.54808 1.24 WIL-59 790.54
2447767.531 310589.97 761.266 1.14 WIL-59 790.54
2447767.531 310589.97 760.98064 1.15 WIL-59 790.54
2447767.531 310589.97 760.69856 1.06 WIL-59 790.54
2447767.531 310589.97 760.44928 0.95 WIL-59 790.54
2447767.531 310589.97 760.16392 1.06 WIL-59 790.54
2447767.531 310589.97 759.87856 1.29 WIL-59 790.54
2447767.531 310589.97 759.5932 1.31 WIL-59 790.54
2447767.531 310589.97 759.30784 1.19 WIL-59 790.54
2447767.531 310589.97 759.02248 1.24 WIL-59 790.54
2447767.531 310589.97 758.76336 1.11 WIL-59 790.54
2447767.531 310589.97 758.48784 1 WIL-59 790.54
2447767.531 310589.97 758.20904 0.97 WIL-59 790.54
2447767.531 310589.97 757.94336 1.1 WIL-59 790.54
2447767.531 310589.97 757.71704 1 WIL-59 790.54
2447767.531 310589.97 757.45792 1.22 WIL-59 790.54
2447767.531 310589.97 757.1988 1.26 WIL-59 790.54
2447767.531 310589.97 756.93968 1.12 WIL-59 790.54
2447767.531 310589.97 756.68056 1.14 WIL-59 790.54
2447767.531 310589.97 756.41816 0.98 WIL-59 790.54
2447767.531 310589.97 756.18528 1.2 WIL-59 790.54
2447767.531 310589.97 755.9196 1.48 WIL-59 790.54
2447767.531 310589.97 755.6572 1.36 WIL-59 790.54
2447767.531 310589.97 755.34888 0.97 WIL-59 790.54
2447767.531 310589.97 755.08976 0.96 WIL-59 790.54
2447767.531 310589.97 754.76832 1.07 WIL-59 790.54
2447767.531 310589.97 754.51248 1.08 WIL-59 790.54
2447767.531 310589.97 754.25008 1.01 WIL-59 790.54
2447767.531 310589.97 753.99096 1.08 WIL-59 790.54
2447767.531 310589.97 753.73184 1.03 WIL-59 790.54
2447767.531 310589.97 753.47272 1.09 WIL-59 790.54
2447767.531 310589.97 753.21032 1.09 WIL-59 790.54
```

2447767.531 310589.97 752.984 1.06 WIL-59 790.54
2447767.531 310589.97 752.72488 1.01 WIL-59 790.54
2447767.531 310589.97 752.46576 1.15 WIL-59 790.54
2447767.531 310589.97 752.30176 1.22 WIL-59 790.54
2447756.872 310553.148 789.279 1.34 WIL-60 789.279
2447756.872 310553.148 789.00676 0.77 WIL-60 789.279
2447756.872 310553.148 788.75748 0.6 WIL-60 789.279
2447756.872 310553.148 788.52788 0.9 WIL-60 789.279
2447756.872 310553.148 788.26548 0.62 WIL-60 789.279
2447756.872 310553.148 788.0162 1.29 WIL-60 789.279
2447756.872 310553.148 787.73412 1.81 WIL-60 789.279
2447756.872 310553.148 787.47828 2.27 WIL-60 789.279
2447756.872 310553.148 787.1962 1.86 WIL-60 789.279
2447756.872 310553.148 786.95348 1.46 WIL-60 789.279
2447756.872 310553.148 786.62548 1.49 WIL-60 789.279
2447756.872 310553.148 786.33684 1.62 WIL-60 789.279
2447756.872 310553.148 786.04164 1.91 WIL-60 789.279
2447756.872 310553.148 785.74644 2.06 WIL-60 789.279
2447756.872 310553.148 785.48732 2.48 WIL-60 789.279
2447756.872 310553.148 785.18556 1.99 WIL-60 789.279
2447756.872 310553.148 784.89036 1.99 WIL-60 789.279
2447756.872 310553.148 784.5886 2.02 WIL-60 789.279
2447756.872 310553.148 784.28684 1.77 WIL-60 789.279
2447756.872 310553.148 783.98508 1.8 WIL-60 789.279
2447756.872 310553.148 783.69316 2.32 WIL-60 789.279
2447756.872 310553.148 783.44388 2.53 WIL-60 789.279
2447756.872 310553.148 783.14868 3.5 WIL-60 789.279
2447756.872 310553.148 782.90596 3.48 WIL-60 789.279
2447756.872 310553.148 782.59764 4.39 WIL-60 789.279
2447756.872 310553.148 782.31556 6.47 WIL-60 789.279
2447756.872 310553.148 782.04004 10.96 WIL-60 789.279
2447756.872 310553.148 781.76124 8.48 WIL-60 789.279
2447756.872 310553.148 781.51524 6.5 WIL-60 789.279
2447756.872 310553.148 781.23316 4.51 WIL-60 789.279
2447756.872 310553.148 780.95108 8.96 WIL-60 789.279
2447756.872 310553.148 780.66572 20.2 WIL-60 789.279
2447756.872 310553.148 780.41316 9.13 WIL-60 789.279
2447756.872 310553.148 780.11796 12.19 WIL-60 789.279
2447756.872 310553.148 779.83916 13.13 WIL-60 789.279
2447756.872 310553.148 779.56036 13.73 WIL-60 789.279
2447756.872 310553.148 779.27828 13.27 WIL-60 789.279
2447756.872 310553.148 778.9962 17.33 WIL-60 789.279
2447756.872 310553.148 778.71084 12.57 WIL-60 789.279
2447756.872 310553.148 778.42876 10.18 WIL-60 789.279
2447756.872 310553.148 778.14012 15.87 WIL-60 789.279
2447756.872 310553.148 777.85476 18.13 WIL-60 789.279
2447756.872 310553.148 777.59892 11.59 WIL-60 789.279
2447756.872 310553.148 777.31028 5.75 WIL-60 789.279
2447756.872 310553.148 777.061 7.41 WIL-60 789.279
2447756.872 310553.148 776.77564 10.69 WIL-60 789.279
2447756.872 310553.148 776.48372 10.82 WIL-60 789.279
2447756.872 310553.148 776.1918 5.6 WIL-60 789.279
2447756.872 310553.148 775.94908 13.06 WIL-60 789.279
2447756.872 310553.148 775.67028 5.96 WIL-60 789.279
2447756.872 310553.148 775.39476 3.28 WIL-60 789.279
2447756.872 310553.148 775.11596 3.03 WIL-60 789.279
2447756.872 310553.148 774.83388 2.39 WIL-60 789.279
2447756.872 310553.148 774.5518 2.1 WIL-60 789.279
2447756.872 310553.148 774.26972 3.56 WIL-60 789.279
2447756.872 310553.148 773.99092 3.69 WIL-60 789.279
2447756.872 310553.148 773.70556 3.14 WIL-60 789.279
2447756.872 310553.148 773.43004 3.21 WIL-60 789.279
2447756.872 310553.148 773.15452 4.01 WIL-60 789.279
2447756.872 310553.148 772.87572 4.04 WIL-60 789.279
2447756.872 310553.148 772.59364 5.52 WIL-60 789.279
2447756.872 310553.148 772.31156 3.57 WIL-60 789.279
2447756.872 310553.148 772.02948 4.73 WIL-60 789.279
2447756.872 310553.148 771.7474 3.57 WIL-60 789.279
2447756.872 310553.148 771.46204 3.19 WIL-60 789.279
2447756.872 310553.148 771.21604 3.75 WIL-60 789.279
2447756.872 310553.148 770.93068 4.39 WIL-60 789.279
2447756.872 310553.148 770.68796 2.7 WIL-60 789.279
2447756.872 310553.148 770.40916 3.01 WIL-60 789.279
2447756.872 310553.148 770.12708 2.33 WIL-60 789.279
2447756.872 310553.148 769.845 2.31 WIL-60 789.279
2447756.872 310553.148 769.56292 2.27 WIL-60 789.279
2447756.872 310553.148 769.27756 2.93 WIL-60 789.279
2447756.872 310553.148 768.9922 2.11 WIL-60 789.279
2447756.872 310553.148 768.70684 2.33 WIL-60 789.279
2447756.872 310553.148 768.45756 2.02 WIL-60 789.279
2447756.872 310553.148 768.1722 2.41 WIL-60 789.279
2447756.872 310553.148 767.88684 1.68 WIL-60 789.279
2447756.872 310553.148 767.5982 2.07 WIL-60 789.279
2447756.872 310553.148 767.30628 2.23 WIL-60 789.279
2447756.872 310553.148 767.02748 2.36 WIL-60 789.279
2447756.872 310553.148 766.74212 1.98 WIL-60 789.279
2447756.872 310553.148 766.49284 2.51 WIL-60 789.279
2447756.872 310553.148 766.2042 2.24 WIL-60 789.279
2447756.872 310553.148 765.91884 2.65 WIL-60 789.279
2447756.872 310553.148 765.63348 2.1 WIL-60 789.279
2447756.872 310553.148 765.33828 2.85 WIL-60 789.279
2447756.872 310553.148 765.04964 1.93 WIL-60 789.279
2447756.872 310553.148 764.79708 2.96 WIL-60 789.279
2447756.872 310553.148 764.50844 2.4 WIL-60 789.279
2447756.872 310553.148 764.2198 2.54 WIL-60 789.279
2447756.872 310553.148 763.99348 2.58 WIL-60 789.279
2447756.872 310553.148 763.70812 2.33 WIL-60 789.279
2447756.872 310553.148 763.41948 1.82 WIL-60 789.279
2447756.872 310553.148 763.1702 2.36 WIL-60 789.279
2447756.872 310553.148 762.88156 2.59 WIL-60 789.279
2447756.872 310553.148 762.59292 1.88 WIL-60 789.279
2447756.872 310553.148 762.30428 2.72 WIL-60 789.279

2447756.872 310553.148 762.01236 2.88 WIL-60 789.279
2447756.872 310553.148 761.72372 2.32 WIL-60 789.279
2447756.872 310553.148 761.4318 2.05 WIL-60 789.279
2447756.872 310553.148 761.14316 1.61 WIL-60 789.279
2447756.872 310553.148 760.82828 0.65 WIL-60 789.279
2447756.872 310553.148 760.5462 0.6 WIL-60 789.279
2447756.872 310553.148 760.26084 0.61 WIL-60 789.279
2447756.872 310553.148 759.9722 0.6 WIL-60 789.279
2447756.872 310553.148 759.68356 0.65 WIL-60 789.279
2447756.872 310553.148 759.39492 0.59 WIL-60 789.279
2447756.872 310553.148 759.1358 0.59 WIL-60 789.279
2447756.872 310553.148 758.84388 0.57 WIL-60 789.279
2447756.872 310553.148 758.55196 0.62 WIL-60 789.279
2447756.872 310553.148 758.26332 0.5 WIL-60 789.279
2447756.872 310553.148 757.96812 0.42 WIL-60 789.279
2447756.872 310553.148 757.70244 0.73 WIL-60 789.279
2447756.872 310553.148 757.41708 0.88 WIL-60 789.279
2447756.872 310553.148 757.13172 0.8 WIL-60 789.279
2447756.872 310553.148 756.8398 1.46 WIL-60 789.279
2447756.872 310553.148 756.58724 1.79 WIL-60 789.279
2447756.872 310553.148 756.29532 1.81 WIL-60 789.279
2447756.872 310553.148 756.0034 1.8 WIL-60 789.279
2447756.872 310553.148 755.7082 1.73 WIL-60 789.279
2447756.872 310553.148 755.413 1.65 WIL-60 789.279
2447756.872 310553.148 755.12436 1.6 WIL-60 789.279
2447756.872 310553.148 754.84228 1.77 WIL-60 789.279
2447756.872 310553.148 754.55364 1.94 WIL-60 789.279
2447756.872 310553.148 754.22564 2.55 WIL-60 789.279
2447756.872 310553.148 754.0026 2.75 WIL-60 789.279
2447756.872 310553.148 753.74676 2.85 WIL-60 789.279
2447756.872 310553.148 753.46468 2.21 WIL-60 789.279
2447756.872 310553.148 753.18588 2.06 WIL-60 789.279
2447756.872 310553.148 752.93988 2.28 WIL-60 789.279
2447756.872 310553.148 752.65124 2.51 WIL-60 789.279
2447756.872 310553.148 752.3626 2.4 WIL-60 789.279
2447756.872 310553.148 752.07724 1.98 WIL-60 789.279
2447756.872 310553.148 751.79188 2.1 WIL-60 789.279
2447756.872 310553.148 751.5262 1.77 WIL-60 789.279
2447756.872 310553.148 751.26052 1.89 WIL-60 789.279
2447756.872 310553.148 750.99484 2.16 WIL-60 789.279
2447756.872 310553.148 750.6242 1.99 WIL-60 789.279
2447751.611 310448.289 789.364 0.33 WIL-62 789.364
2447751.611 310448.289 789.13768 1.62 WIL-62 789.364
2447751.611 310448.289 788.8884 1.58 WIL-62 789.364
2447751.611 310448.289 788.61288 1.1 WIL-62 789.364
2447751.611 310448.289 788.36032 1.05 WIL-62 789.364
2447751.611 310448.289 788.07824 1.16 WIL-62 789.364
2447751.611 310448.289 787.81912 1.27 WIL-62 789.364
2447751.611 310448.289 787.51736 1.19 WIL-62 789.364
2447751.611 310448.289 787.29432 1.38 WIL-62 789.364
2447751.611 310448.289 787.06472 1.35 WIL-62 789.364
2447751.611 310448.289 786.82856 1.34 WIL-62 789.364
2447751.611 310448.289 786.52352 1.17 WIL-62 789.364
2447751.611 310448.289 786.25784 1.23 WIL-62 789.364
2447751.611 310448.289 785.99544 1.03 WIL-62 789.364
2447751.611 310448.289 785.72976 1.23 WIL-62 789.364
2447751.611 310448.289 785.46408 0.91 WIL-62 789.364
2447751.611 310448.289 785.22792 1.2 WIL-62 789.364
2447751.611 310448.289 784.95568 1.45 WIL-62 789.364
2447751.611 310448.289 784.68344 1.22 WIL-62 789.364
2447751.611 310448.289 784.4112 1.4 WIL-62 789.364
2447751.611 310448.289 784.13896 1.35 WIL-62 789.364
2447751.611 310448.289 783.86344 1.33 WIL-62 789.364
2447751.611 310448.289 783.61088 1.12 WIL-62 789.364
2447751.611 310448.289 783.3452 1.14 WIL-62 789.364
2447751.611 310448.289 783.12216 1.14 WIL-62 789.364
2447751.611 310448.289 782.84992 1.24 WIL-62 789.364
2447751.611 310448.289 782.58752 1.23 WIL-62 789.364
2447751.611 310448.289 782.32184 1.38 WIL-62 789.364
2447751.611 310448.289 782.066 1.63 WIL-62 789.364
2447751.611 310448.289 781.80688 1.29 WIL-62 789.364
2447751.611 310448.289 781.58056 1.53 WIL-62 789.364
2447751.611 310448.289 781.31816 1.47 WIL-62 789.364
2447751.611 310448.289 781.06232 1.41 WIL-62 789.364
2447751.611 310448.289 780.79992 1.29 WIL-62 789.364
2447751.611 310448.289 780.54408 1.34 WIL-62 789.364
2447751.611 310448.289 780.26528 1.64 WIL-62 789.364
2447751.611 310448.289 780.00616 1.49 WIL-62 789.364
2447751.611 310448.289 779.74704 1.55 WIL-62 789.364
2447751.611 310448.289 779.48136 1.47 WIL-62 789.364
2447751.611 310448.289 779.21568 1.49 WIL-62 789.364
2447751.611 310448.289 778.95 1.54 WIL-62 789.364
2447751.611 310448.289 778.68104 1.42 WIL-62 789.364
2447751.611 310448.289 778.40552 1.39 WIL-62 789.364
2447751.611 310448.289 778.15296 1.15 WIL-62 789.364
2447751.611 310448.289 777.86432 0.91 WIL-62 789.364
2447751.611 310448.289 777.5724 0.78 WIL-62 789.364
2447751.611 310448.289 777.28048 0.89 WIL-62 789.364
2447751.611 310448.289 776.97216 0.97 WIL-62 789.364
2447751.611 310448.289 776.68024 0.72 WIL-62 789.364
2447751.611 310448.289 776.42112 0.88 WIL-62 789.364
2447751.611 310448.289 776.17184 0.99 WIL-62 789.364
2447751.611 310448.289 775.8832 0.77 WIL-62 789.364
2447751.611 310448.289 775.59128 0.83 WIL-62 789.364
2447751.611 310448.289 775.29936 1.13 WIL-62 789.364
2447751.611 310448.289 775.00744 0.91 WIL-62 789.364
2447751.611 310448.289 774.7188 1.01 WIL-62 789.364
2447751.611 310448.289 774.42688 1.15 WIL-62 789.364
2447751.611 310448.289 774.13168 1.2 WIL-62 789.364
2447751.611 310448.289 773.83648 1.61 WIL-62 789.364
2447751.611 310448.289 773.54456 1.13 WIL-62 789.364
2447751.611 310448.289 773.24936 1.26 WIL-62 789.364

```
2447751.611 310448.289 773.00008 1.16 WIL-62 789.364
2447751.611 310448.289 772.71144 1.36 WIL-62 789.364
2447751.611 310448.289 772.4228 2.32 WIL-62 789.364
2447751.611 310448.289 772.12432 2.86 WIL-62 789.364
2447751.611 310448.289 771.8324 5.04 WIL-62 789.364
2447751.611 310448.289 771.5372 2.89 WIL-62 789.364
2447751.611 310448.289 771.27808 1.19 WIL-62 789.364
2447751.611 310448.289 770.98288 1.68 WIL-62 789.364
2447751.611 310448.289 770.69424 2.01 WIL-62 789.364
2447751.611 310448.289 770.4712 3.32 WIL-62 789.364
2447751.611 310448.289 770.2088 1.27 WIL-62 789.364
2447751.611 310448.289 769.97592 0.97 WIL-62 789.364
2447751.611 310448.289 769.684 0.83 WIL-62 789.364
2447751.611 310448.289 769.3888 0.91 WIL-62 789.364
2447751.611 310448.289 769.09688 0.79 WIL-62 789.364
2447751.611 310448.289 768.83448 0.81 WIL-62 789.364
2447751.611 310448.289 768.53928 1.3 WIL-62 789.364
2447751.611 310448.289 768.31624 1.2 WIL-62 789.364
2447751.611 310448.289 768.05384 1.29 WIL-62 789.364
2447751.611 310448.289 767.82752 1.44 WIL-62 789.364
2447751.611 310448.289 767.52904 1.3 WIL-62 789.364
2447751.611 310448.289 767.23056 1.34 WIL-62 789.364
2447751.611 310448.289 766.93208 1.32 WIL-62 789.364
2447751.611 310448.289 766.70904 1.02 WIL-62 789.364
2447751.611 310448.289 766.41712 1.17 WIL-62 789.364
2447751.611 310448.289 766.1744 1.43 WIL-62 789.364
2447751.611 310448.289 765.94152 1.2 WIL-62 789.364
2447751.611 310448.289 765.68568 1.12 WIL-62 789.364
2447751.611 310448.289 765.43968 1.37 WIL-62 789.364
2447751.611 310448.289 765.18384 1.37 WIL-62 789.364
2447751.611 310448.289 764.9444 1.15 WIL-62 789.364
2447751.611 310448.289 764.70496 1.11 WIL-62 789.364
2447751.611 310448.289 764.45568 1.28 WIL-62 789.364
2447751.611 310448.289 764.23264 1.45 WIL-62 789.364
2447751.611 310448.289 763.97352 1.49 WIL-62 789.364
2447751.611 310448.289 763.71768 1.58 WIL-62 789.364
2447751.611 310448.289 763.40936 1.6 WIL-62 789.364
2447751.611 310448.289 763.16336 1.58 WIL-62 789.364
2447751.611 310448.289 763.06168 1.53 WIL-62 789.364
2447706.322 310428.054 788.85 1.66 WIL-63 788.85
2447706.322 310428.054 788.53512 1.8 WIL-63 788.85
2447706.322 310428.054 788.44984 1.38 WIL-63 788.85
2447616.927 310468.932 788.821 0.73 WIL-64 788.821
2447616.927 310468.932 788.58484 1.82 WIL-64 788.821
2447616.927 310468.932 788.34868 0.42 WIL-64 788.821
2447616.927 310468.932 788.0994 0.32 WIL-64 788.821
2447616.927 310468.932 787.84356 0.45 WIL-64 788.821
2447616.927 310468.932 787.62052 0.47 WIL-64 788.821
2447616.927 310468.932 787.35812 0.22 WIL-64 788.821
2447616.927 310468.932 787.12852 0.53 WIL-64 788.821
2447616.927 310468.932 786.84972 0.6 WIL-64 788.821
2447616.927 310468.932 786.525 0.93 WIL-64 788.821
2447616.927 310468.932 786.25276 2.22 WIL-64 788.821
2447616.927 310468.932 785.98708 2.37 WIL-64 788.821
2447616.927 310468.932 785.7214 1.74 WIL-64 788.821
2447616.927 310468.932 785.459 1.56 WIL-64 788.821
2447616.927 310468.932 785.19332 1.15 WIL-64 788.821
2447616.927 310468.932 784.9342 1.46 WIL-64 788.821
2447616.927 310468.932 784.69476 4.51 WIL-64 788.821
2447616.927 310468.932 784.42908 1.57 WIL-64 788.821
2447616.927 310468.932 784.15684 9.07 WIL-64 788.821
2447616.927 310468.932 783.88788 9.7 WIL-64 788.821
2447616.927 310468.932 783.61236 26.37 WIL-64 788.821
2447616.927 310468.932 783.34012 37.43 WIL-64 788.821
2447616.927 310468.932 783.05476 34.92 WIL-64 788.821
2447616.927 310468.932 782.74644 13.34 WIL-64 788.821
2447616.927 310468.932 782.4742 12.34 WIL-64 788.821
2447616.927 310468.932 782.18228 11.21 WIL-64 788.821
2447616.927 310468.932 781.89036 14.54 WIL-64 788.821
2447616.927 310468.932 781.63452 16.2 WIL-64 788.821
2447616.927 310468.932 781.34588 15.86 WIL-64 788.821
2447616.927 310468.932 781.12284 13.27 WIL-64 788.821
2447616.927 310468.932 780.86372 12.9 WIL-64 788.821
2447616.927 310468.932 780.5718 14.7 WIL-64 788.821
2447616.927 310468.932 780.27988 11.92 WIL-64 788.821
2447616.927 310468.932 780.05028 8.64 WIL-64 788.821
2447616.927 310468.932 779.7518 2.45 WIL-64 788.821
2447616.927 310468.932 779.46644 4.82 WIL-64 788.821
2447616.927 310468.932 779.17124 1.97 WIL-64 788.821
2447616.927 310468.932 778.87932 9 WIL-64 788.821
2447616.927 310468.932 778.58412 4.05 WIL-64 788.821
2447616.927 310468.932 778.2922 4.14 WIL-64 788.821
2447616.927 310468.932 778.03636 3.23 WIL-64 788.821
2447616.927 310468.932 777.81004 2.65 WIL-64 788.821
2447616.927 310468.932 777.55092 6.67 WIL-64 788.821
2447616.927 310468.932 777.22292 3 WIL-64 788.821
2447616.927 310468.932 776.92444 2.2 WIL-64 788.821
2447616.927 310468.932 776.6522 6.81 WIL-64 788.821
2447616.927 310468.932 776.36028 2.97 WIL-64 788.821
2447616.927 310468.932 776.0618 4.21 WIL-64 788.821
2447616.927 310468.932 775.78628 2.37 WIL-64 788.821
2447616.927 310468.932 775.50748 13.63 WIL-64 788.821
2447616.927 310468.932 775.28444 15.46 WIL-64 788.821
2447616.927 310468.932 775.02204 6.03 WIL-64 788.821
2447616.927 310468.932 774.7006 2.37 WIL-64 788.821
2447616.927 310468.932 774.42836 1.11 WIL-64 788.821
2447616.927 310468.932 774.1922 4.35 WIL-64 788.821
2447616.927 310468.932 773.92324 8.7 WIL-64 788.821
2447616.927 310468.932 773.6182 3.61 WIL-64 788.821
2447616.927 310468.932 773.3886 3.78 WIL-64 788.821
2447616.927 310468.932 773.12948 8.29 WIL-64 788.821
2447616.927 310468.932 772.86708 11.25 WIL-64 788.821
```

```
2447616.927 310468.932 772.59812 10.16 WIL-64 788.821
2447616.927 310468.932 772.33244 11.06 WIL-64 788.821
2447616.927 310468.932 772.0602 10.47 WIL-64 788.821
2447616.927 310468.932 771.79124 11.97 WIL-64 788.821
2447616.927 310468.932 771.519 11.52 WIL-64 788.821
2447616.927 310468.932 771.24348 9.84 WIL-64 788.821
2447616.927 310468.932 770.97452 14.92 WIL-64 788.821
2447616.927 310468.932 770.70556 5.71 WIL-64 788.821
2447616.927 310468.932 770.43332 9.58 WIL-64 788.821
2447616.927 310468.932 770.12828 14 WIL-64 788.821
2447616.927 310468.932 769.84948 11.62 WIL-64 788.821
2447616.927 310468.932 769.57724 4.4 WIL-64 788.821
2447616.927 310468.932 769.29844 2.1 WIL-64 788.821
2447616.927 310468.932 769.0098 22.97 WIL-64 788.821
2447616.927 310468.932 768.78676 32.75 WIL-64 788.821
2447616.927 310468.932 768.54076 37.77 WIL-64 788.821
2447616.927 310468.932 768.29148 17.2 WIL-64 788.821
2447616.927 310468.932 768.03892 17.94 WIL-64 788.821
2447616.927 310468.932 767.78636 15.01 WIL-64 788.821
2447616.927 310468.932 767.5338 23.66 WIL-64 788.821
2447616.927 310468.932 767.27796 9.25 WIL-64 788.821
2447616.927 310468.932 766.96308 29.68 WIL-64 788.821
2447616.927 310468.932 766.681 5.88 WIL-64 788.821
2447616.927 310468.932 766.43172 11.98 WIL-64 788.821
2447616.927 310468.932 766.189 6.26 WIL-64 788.821
2447616.927 310468.932 765.92988 10.18 WIL-64 788.821
2447616.927 310468.932 765.75276 17.48 WIL-64 788.821
2447252.219 309732.996 780.874 1.8 WIL-65 780.874
2447252.219 309732.996 780.64112 2 WIL-65 780.874
2447252.219 309732.996 780.39512 2.22 WIL-65 780.874
2447252.219 309732.996 780.16552 2.18 WIL-65 780.874
2447252.219 309732.996 779.91296 1.89 WIL-65 780.874
2447252.219 309732.996 779.68992 2.07 WIL-65 780.874
2447252.219 309732.996 779.40784 1.82 WIL-65 780.874
2447252.219 309732.996 779.1684 2.44 WIL-65 780.874
2447252.219 309732.996 778.91584 3.02 WIL-65 780.874
2447252.219 309732.996 778.67312 2.03 WIL-65 780.874
2447252.219 309732.996 778.36152 1.87 WIL-65 780.874
2447252.219 309732.996 778.11552 1.41 WIL-65 780.874
2447252.219 309732.996 777.82688 1.41 WIL-65 780.874
2447252.219 309732.996 777.5448 1.5 WIL-65 780.874
2447252.219 309732.996 777.3152 1.56 WIL-65 780.874
2447252.219 309732.996 777.0528 1.56 WIL-65 780.874
2447252.219 309732.996 776.81992 1.43 WIL-65 780.874
2447252.219 309732.996 776.5936 1.45 WIL-65 780.874
2447252.219 309732.996 776.37056 1.43 WIL-65 780.874
2447252.219 309732.996 776.08192 1.4 WIL-65 780.874
2447252.219 309732.996 775.78672 1.59 WIL-65 780.874
2447252.219 309732.996 775.51448 1.5 WIL-65 780.874
2447252.219 309732.996 775.2816 1.57 WIL-65 780.874
2447252.219 309732.996 775.04544 1.49 WIL-65 780.874
2447252.219 309732.996 774.76664 1.43 WIL-65 780.874
2447252.219 309732.996 774.50096 1.4 WIL-65 780.874
2447252.219 309732.996 774.2648 2.58 WIL-65 780.874
2447252.219 309732.996 773.986 12.13 WIL-65 780.874
2447252.219 309732.996 773.74 12.62 WIL-65 780.874
2447252.219 309732.996 773.49728 11.32 WIL-65 780.874
2447252.219 309732.996 773.25128 7.75 WIL-65 780.874
2447252.219 309732.996 773.01184 8 WIL-65 780.874
2447252.219 309732.996 772.7724 11.4 WIL-65 780.874
2447252.219 309732.996 772.53952 11.77 WIL-65 780.874
2447252.219 309732.996 772.30664 16.54 WIL-65 780.874
2447252.219 309732.996 772.08032 13.86 WIL-65 780.874
2447252.219 309732.996 771.79168 12.77 WIL-65 780.874
2447252.219 309732.996 771.48664 5.21 WIL-65 780.874
2447252.219 309732.996 771.2472 3.42 WIL-65 780.874
2447252.219 309732.996 770.9684 2.54 WIL-65 780.874
2447252.219 309732.996 770.69616 4.76 WIL-65 780.874
2447252.219 309732.996 770.41408 2.75 WIL-65 780.874
2447252.219 309732.996 770.13856 2.13 WIL-65 780.874
2447252.219 309732.996 769.85976 2.55 WIL-65 780.874
2447252.219 309732.996 769.58096 4.62 WIL-65 780.874
2447252.219 309732.996 769.30216 2.82 WIL-65 780.874
2447252.219 309732.996 769.05944 2.94 WIL-65 780.874
2447252.219 309732.996 768.83312 4.48 WIL-65 780.874
2447252.219 309732.996 768.53792 2.61 WIL-65 780.874
2447252.219 309732.996 768.26896 2.77 WIL-65 780.874
2447252.219 309732.996 767.9836 3.74 WIL-65 780.874
2447252.219 309732.996 767.75728 4.55 WIL-65 780.874
2447252.219 309732.996 767.52768 12.38 WIL-65 780.874
2447252.219 309732.996 767.2948 4.49 WIL-65 780.874
2447252.219 309732.996 767.06192 2.48 WIL-65 780.874
2447252.219 309732.996 766.82904 2.09 WIL-65 780.874
2447252.219 309732.996 766.59288 1.83 WIL-65 780.874
2447252.219 309732.996 766.35672 1.95 WIL-65 780.874
2447252.219 309732.996 766.0648 1.4 WIL-65 780.874
2447252.219 309732.996 765.82864 1.72 WIL-65 780.874
2447252.219 309732.996 765.59576 2.25 WIL-65 780.874
2447252.219 309732.996 765.35632 1.05 WIL-65 780.874
2447252.219 309732.996 765.12672 1.31 WIL-65 780.874
2447252.219 309732.996 764.84792 2.19 WIL-65 780.874
2447252.219 309732.996 764.54616 1.71 WIL-65 780.874
2447252.219 309732.996 764.26408 1.86 WIL-65 780.874
2447252.219 309732.996 764.04104 1.75 WIL-65 780.874
2447252.219 309732.996 763.81144 1.89 WIL-65 780.874
2447252.219 309732.996 763.58512 1.64 WIL-65 780.874
2447252.219 309732.996 763.36208 2.58 WIL-65 780.874
2447252.219 309732.996 763.13576 2.54 WIL-65 780.874
2447252.219 309732.996 762.90616 2.36 WIL-65 780.874
2447252.219 309732.996 762.63064 2.95 WIL-65 780.874
2447252.219 309732.996 762.40432 3.15 WIL-65 780.874
2447252.219 309732.996 762.17472 3.32 WIL-65 780.874
```

```
2447252.219 309732.996 761.8992 3.74 WIL-65 780.874
2447252.219 309732.996 761.66304 4.02 WIL-65 780.874
2447252.219 309732.996 761.43672 4.85 WIL-65 780.874
2447252.219 309732.996 761.14808 1.84 WIL-65 780.874
2447252.219 309732.996 760.91848 2.12 WIL-65 780.874
2447252.219 309732.996 760.6856 2.86 WIL-65 780.874
2447252.219 309732.996 760.45272 2.5 WIL-65 780.874
2447252.219 309732.996 760.1608 2.11 WIL-65 780.874
2447252.219 309732.996 759.93448 1.68 WIL-65 780.874
2447252.219 309732.996 759.7016 1.8 WIL-65 780.874
2447252.219 309732.996 759.46872 2.08 WIL-65 780.874
2447252.219 309732.996 759.23256 2.46 WIL-65 780.874
2447252.219 309732.996 759.00296 2.33 WIL-65 780.874
2447252.219 309732.996 758.77336 1.98 WIL-65 780.874
2447252.219 309732.996 758.54376 2.08 WIL-65 780.874
2447252.219 309732.996 758.32072 3.26 WIL-65 780.874
2447252.219 309732.996 758.03864 2.77 WIL-65 780.874
2447252.219 309732.996 757.78936 2.78 WIL-65 780.874
2447252.219 309732.996 757.50072 2.18 WIL-65 780.874
2447252.219 309732.996 757.26784 2.74 WIL-65 780.874
2447252.219 309732.996 757.03824 3.45 WIL-65 780.874
2447252.219 309732.996 756.80864 3.85 WIL-65 780.874
2447252.219 309732.996 756.57576 5.11 WIL-65 780.874
2447252.219 309732.996 756.34288 4.36 WIL-65 780.874
2447252.219 309732.996 756.11328 5.15 WIL-65 780.874
2447252.219 309732.996 755.88368 5.81 WIL-65 780.874
2447252.219 309732.996 755.65408 4.38 WIL-65 780.874
2447252.219 309732.996 755.38184 6.38 WIL-65 780.874
2447252.219 309732.996 755.15552 4.79 WIL-65 780.874
2447252.219 309732.996 754.93248 2.01 WIL-65 780.874
2447252.219 309732.996 754.64384 3.08 WIL-65 780.874
2447252.219 309732.996 754.41424 2.57 WIL-65 780.874
2447252.219 309732.996 754.18464 2.71 WIL-65 780.874
2447252.219 309732.996 753.95504 2.98 WIL-65 780.874
2447252.219 309732.996 753.72544 2.74 WIL-65 780.874
2447252.219 309732.996 753.49256 1.85 WIL-65 780.874
2447252.219 309732.996 753.20392 1.67 WIL-65 780.874
2447252.219 309732.996 752.97104 1.9 WIL-65 780.874
2447252.219 309732.996 752.68568 2 WIL-65 780.874
2447252.219 309732.996 752.3872 1.76 WIL-65 780.874
2447252.219 309732.996 752.09528 1.99 WIL-65 780.874
2447252.219 309732.996 751.85912 1.95 WIL-65 780.874
2447252.219 309732.996 751.56392 1.91 WIL-65 780.874
2447252.219 309732.996 751.3212 1.97 WIL-65 780.874
2447252.219 309732.996 751.08504 2.12 WIL-65 780.874
2447252.219 309732.996 750.8456 2.01 WIL-65 780.874
2447252.219 309732.996 750.54712 2.19 WIL-65 780.874
2447252.219 309732.996 750.30768 1.24 WIL-65 780.874
2447252.219 309732.996 750.06824 1.56 WIL-65 780.874
2447252.219 309732.996 749.83208 1.51 WIL-65 780.874
2447252.219 309732.996 749.59264 1.4 WIL-65 780.874
2447252.219 309732.996 749.304 1.08 WIL-65 780.874
2447252.219 309732.996 749.06456 1.3 WIL-65 780.874
2447252.219 309732.996 748.812 1.48 WIL-65 780.874
2447252.219 309732.996 748.5824 1.51 WIL-65 780.874
2447252.219 309732.996 748.34624 1.58 WIL-65 780.874
2447252.219 309732.996 748.04776 2 WIL-65 780.874
2447252.219 309732.996 747.81488 1.95 WIL-65 780.874
2447252.219 309732.996 747.58856 1.83 WIL-65 780.874
2447252.219 309732.996 747.29664 1.76 WIL-65 780.874
2447252.219 309732.996 747.0736 1.67 WIL-65 780.874
2447252.219 309732.996 746.844 1.52 WIL-65 780.874
2447252.219 309732.996 746.81448 1.57 WIL-65 780.874
2447281.584 309687.898 781.414 1.51 WIL-66 781.414
2447281.584 309687.898 781.18112 1.42 WIL-66 781.414
2447281.584 309687.898 780.9548 1.45 WIL-66 781.414
2447281.584 309687.898 780.6924 1.04 WIL-66 781.414
2447281.584 309687.898 780.45952 1.07 WIL-66 781.414
2447281.584 309687.898 780.22664 0.94 WIL-66 781.414
2447281.584 309687.898 779.99376 1.08 WIL-66 781.414
2447281.584 309687.898 779.75104 0.94 WIL-66 781.414
2447281.584 309687.898 779.45584 1.1 WIL-66 781.414
2447281.584 309687.898 779.18688 0.94 WIL-66 781.414
2447281.584 309687.898 778.92448 0.95 WIL-66 781.414
2447281.584 309687.898 778.69488 1.01 WIL-66 781.414
2447281.584 309687.898 778.41608 0.88 WIL-66 781.414
2447281.584 309687.898 778.1668 0.9 WIL-66 781.414
2447281.584 309687.898 777.91424 0.91 WIL-66 781.414
2447281.584 309687.898 777.66496 0.91 WIL-66 781.414
2447281.584 309687.898 777.40912 0.98 WIL-66 781.414
2447281.584 309687.898 777.15328 0.96 WIL-66 781.414
2447281.584 309687.898 776.89416 0.88 WIL-66 781.414
2447281.584 309687.898 776.63832 0.91 WIL-66 781.414
2447281.584 309687.898 776.38248 1.4 WIL-66 781.414
2447281.584 309687.898 776.15616 1.42 WIL-66 781.414
2447281.584 309687.898 775.89704 1.21 WIL-66 781.414
2447281.584 309687.898 775.63464 1.39 WIL-66 781.414
2447281.584 309687.898 775.38208 1.37 WIL-66 781.414
2447281.584 309687.898 775.12296 1.43 WIL-66 781.414
2447281.584 309687.898 774.854 1.47 WIL-66 781.414
2447281.584 309687.898 774.58504 1.42 WIL-66 781.414
2447281.584 309687.898 774.31608 1.39 WIL-66 781.414
2447281.584 309687.898 774.05368 1.31 WIL-66 781.414
2447281.584 309687.898 773.788 1.32 WIL-66 781.414
2447281.584 309687.898 773.53216 1.25 WIL-66 781.414
2447281.584 309687.898 773.30584 1.11 WIL-66 781.414
2447281.584 309687.898 773.05328 1.05 WIL-66 781.414
2447281.584 309687.898 772.79416 1 WIL-66 781.414
2447281.584 309687.898 772.5416 1.01 WIL-66 781.414
2447281.584 309687.898 772.28248 0.96 WIL-66 781.414
2447281.584 309687.898 771.99384 0.99 WIL-66 781.414
2447281.584 309687.898 771.73472 0.99 WIL-66 781.414
```

```
2447281.584 309687.898 771.46576 1.04 WIL-66 781.414
2447281.584 309687.898 771.1968 0.97 WIL-66 781.414
2447281.584 309687.898 770.96064 1.07 WIL-66 781.414
2447281.584 309687.898 770.68512 1.18 WIL-66 781.414
2447281.584 309687.898 770.41944 1.13 WIL-66 781.414
2447281.584 309687.898 770.1472 1.36 WIL-66 781.414
2447281.584 309687.898 769.87168 1.36 WIL-66 781.414
2447281.584 309687.898 769.59944 1.26 WIL-66 781.414
2447281.584 309687.898 769.33048 1.2 WIL-66 781.414
2447281.584 309687.898 769.05496 1.19 WIL-66 781.414
2447281.584 309687.898 768.8024 1.15 WIL-66 781.414
2447281.584 309687.898 768.53344 1.2 WIL-66 781.414
2447281.584 309687.898 768.25464 1.2 WIL-66 781.414
2447281.584 309687.898 767.97912 1.22 WIL-66 781.414
2447281.584 309687.898 767.70032 1.22 WIL-66 781.414
2447281.584 309687.898 767.4248 1.12 WIL-66 781.414
2447281.584 309687.898 767.15256 1.04 WIL-66 781.414
2447281.584 309687.898 766.87704 1.34 WIL-66 781.414
2447281.584 309687.898 766.6048 1.12 WIL-66 781.414
2447281.584 309687.898 766.36864 1.13 WIL-66 781.414
2447281.584 309687.898 766.0964 1.02 WIL-66 781.414
2447281.584 309687.898 765.82744 0.99 WIL-66 781.414
2447281.584 309687.898 765.55848 0.95 WIL-66 781.414
2447281.584 309687.898 765.28296 0.94 WIL-66 781.414
2447281.584 309687.898 765.00416 0.93 WIL-66 781.414
2447281.584 309687.898 764.72208 0.92 WIL-66 781.414
2447281.584 309687.898 764.44328 1.87 WIL-66 781.414
2447281.584 309687.898 764.16448 2.35 WIL-66 781.414
2447281.584 309687.898 763.88568 1.06 WIL-66 781.414
2447281.584 309687.898 763.6036 1.16 WIL-66 781.414
2447281.584 309687.898 763.32152 1.36 WIL-66 781.414
2447281.584 309687.898 763.046 1.34 WIL-66 781.414
2447281.584 309687.898 762.76392 1.57 WIL-66 781.414
2447281.584 309687.898 762.48184 1.63 WIL-66 781.414
2447281.584 309687.898 762.20304 3.86 WIL-66 781.414
2447281.584 309687.898 761.92424 1.45 WIL-66 781.414
2447281.584 309687.898 761.64544 1.34 WIL-66 781.414
2447281.584 309687.898 761.36664 1.2 WIL-66 781.414
2447281.584 309687.898 761.08456 1.2 WIL-66 781.414
2447281.584 309687.898 760.80904 1.21 WIL-66 781.414
2447281.584 309687.898 760.52696 0.83 WIL-66 781.414
2447281.584 309687.898 760.24488 1.32 WIL-66 781.414
2447281.584 309687.898 759.96608 1.42 WIL-66 781.414
2447281.584 309687.898 759.684 1.16 WIL-66 781.414
2447281.584 309687.898 759.438 1.1 WIL-66 781.414
2447281.584 309687.898 759.21496 1.05 WIL-66 781.414
2447281.584 309687.898 758.96568 1.01 WIL-66 781.414
2447281.584 309687.898 758.6836 1.04 WIL-66 781.414
2447281.584 309687.898 758.40152 1.08 WIL-66 781.414
2447281.584 309687.898 758.11616 1.37 WIL-66 781.414
2447281.584 309687.898 757.8308 1.24 WIL-66 781.414
2447281.584 309687.898 757.54544 1.31 WIL-66 781.414
2447281.584 309687.898 757.26008 1.08 WIL-66 781.414
2447281.584 309687.898 756.97472 1.87 WIL-66 781.414
2447281.584 309687.898 756.72544 0.96 WIL-66 781.414
2447281.584 309687.898 756.44336 0.89 WIL-66 781.414
2447281.584 309687.898 756.158 0.94 WIL-66 781.414
2447281.584 309687.898 755.90544 0.99 WIL-66 781.414
2447281.584 309687.898 755.62992 1.04 WIL-66 781.414
2447281.584 309687.898 755.34128 0.84 WIL-66 781.414
2447281.584 309687.898 755.08872 0.9 WIL-66 781.414
2447281.584 309687.898 754.80336 0.91 WIL-66 781.414
2447281.584 309687.898 754.51472 0.86 WIL-66 781.414
2447281.584 309687.898 754.2228 1.05 WIL-66 781.414
2447281.584 309687.898 753.93088 1.11 WIL-66 781.414
2447281.584 309687.898 753.64552 1.08 WIL-66 781.414
2447281.584 309687.898 753.35688 1.59 WIL-66 781.414
2447281.584 309687.898 753.06824 1.59 WIL-66 781.414
2447281.584 309687.898 752.81568 1.47 WIL-66 781.414
2447281.584 309687.898 752.57624 1.79 WIL-66 781.414
2447281.584 309687.898 752.29416 1.83 WIL-66 781.414
2447281.584 309687.898 752.00224 1.8 WIL-66 781.414
2447281.584 309687.898 751.71688 1.8 WIL-66 781.414
2447281.584 309687.898 751.42496 1.87 WIL-66 781.414
2447281.584 309687.898 751.13304 1.59 WIL-66 781.414
2447281.584 309687.898 750.84112 1.2 WIL-66 781.414
2447281.584 309687.898 750.54592 0.94 WIL-66 781.414
2447281.584 309687.898 750.29008 1.17 WIL-66 781.414
2447281.584 309687.898 750.00144 0.9 WIL-66 781.414
2447281.584 309687.898 749.70624 1.2 WIL-66 781.414
2447281.584 309687.898 749.42416 0.96 WIL-66 781.414
2447281.584 309687.898 749.13552 1.03 WIL-66 781.414
2447281.584 309687.898 748.85016 0.73 WIL-66 781.414
2447281.584 309687.898 748.55824 0.67 WIL-66 781.414
2447281.584 309687.898 748.26632 0.55 WIL-66 781.414
2447281.584 309687.898 747.97768 0.66 WIL-66 781.414
2447281.584 309687.898 747.68576 0.88 WIL-66 781.414
2447281.584 309687.898 747.39056 0.88 WIL-66 781.414
2447281.584 309687.898 747.13472 1.02 WIL-66 781.414
2447281.584 309687.898 746.84608 1.23 WIL-66 781.414
2447281.584 309687.898 746.55416 1.13 WIL-66 781.414
2447281.584 309687.898 746.30816 1.14 WIL-66 781.414
2447318.905 309717.207 779.58 1.44 WIL-67 779.58
2447318.905 309717.207 779.334 3.86 WIL-67 779.58
2447318.905 309717.207 779.06176 1.06 WIL-67 779.58
2447318.905 309717.207 778.75672 1.09 WIL-67 779.58
2447318.905 309717.207 778.52712 1.5 WIL-67 779.58
2447318.905 309717.207 778.2352 1.25 WIL-67 779.58
2447318.905 309717.207 777.99576 1.19 WIL-67 779.58
2447318.905 309717.207 777.76288 1.15 WIL-67 779.58
2447318.905 309717.207 777.52016 1.13 WIL-67 779.58
2447318.905 309717.207 777.27744 1.1 WIL-67 779.58
```

```
2447318.905 309717.207 777.05112 1.17 WIL-67 779.58
2447318.905 309717.207 776.8084 1.19 WIL-67 779.58
2447318.905 309717.207 776.55584 1.11 WIL-67 779.58
2447318.905 309717.207 776.30328 1.17 WIL-67 779.58
2447318.905 309717.207 776.04744 1.09 WIL-67 779.58
2447318.905 309717.207 775.82112 1.13 WIL-67 779.58
2447318.905 309717.207 775.56856 1.07 WIL-67 779.58
2447318.905 309717.207 775.30944 1.27 WIL-67 779.58
2447318.905 309717.207 775.05032 0.91 WIL-67 779.58
2447318.905 309717.207 774.79448 0.89 WIL-67 779.58
2447318.905 309717.207 774.53864 0.8 WIL-67 779.58
2447318.905 309717.207 774.27952 0.84 WIL-67 779.58
2447318.905 309717.207 774.01712 0.99 WIL-67 779.58
2447318.905 309717.207 773.73504 0.73 WIL-67 779.58
2447318.905 309717.207 773.48904 0.77 WIL-67 779.58
2447318.905 309717.207 773.266 1.04 WIL-67 779.58
2447318.905 309717.207 773.01344 0.9 WIL-67 779.58
2447318.905 309717.207 772.7576 1.11 WIL-67 779.58
2447318.905 309717.207 772.50504 1.21 WIL-67 779.58
2447318.905 309717.207 772.25248 1.12 WIL-67 779.58
2447318.905 309717.207 772.02616 1.18 WIL-67 779.58
2447318.905 309717.207 771.77032 1.31 WIL-67 779.58
2447318.905 309717.207 771.51448 1.12 WIL-67 779.58
2447318.905 309717.207 771.25864 0.91 WIL-67 779.58
2447318.905 309717.207 771.0028 0.93 WIL-67 779.58
2447318.905 309717.207 770.7404 0.95 WIL-67 779.58
2447318.905 309717.207 770.51408 0.62 WIL-67 779.58
2447318.905 309717.207 770.25496 0.78 WIL-67 779.58
2447318.905 309717.207 769.986 0.78 WIL-67 779.58
2447318.905 309717.207 769.75312 0.73 WIL-67 779.58
2447318.905 309717.207 769.48416 0.78 WIL-67 779.58
2447318.905 309717.207 769.20864 0.55 WIL-67 779.58
2447318.905 309717.207 768.93968 0.7 WIL-67 779.58
2447318.905 309717.207 768.66744 0.74 WIL-67 779.58
2447318.905 309717.207 768.39192 1.1 WIL-67 779.58
2447318.905 309717.207 768.12296 1.03 WIL-67 779.58
2447318.905 309717.207 767.85072 0.93 WIL-67 779.58
2447318.905 309717.207 767.608 0.97 WIL-67 779.58
2447318.905 309717.207 767.37512 1.98 WIL-67 779.58
2447318.905 309717.207 767.14224 1.72 WIL-67 779.58
2447318.905 309717.207 766.87 1.05 WIL-67 779.58
2447318.905 309717.207 766.59776 1.23 WIL-67 779.58
2447318.905 309717.207 766.32552 1.2 WIL-67 779.58
2447318.905 309717.207 766.05 1.34 WIL-67 779.58
2447318.905 309717.207 765.81056 1.24 WIL-67 779.58
2447318.905 309717.207 765.53176 2.07 WIL-67 779.58
2447318.905 309717.207 765.24968 1.6 WIL-67 779.58
2447318.905 309717.207 764.91184 1.09 WIL-67 779.58
2447318.905 309717.207 764.61992 1.16 WIL-67 779.58
2447318.905 309717.207 764.33128 1.57 WIL-67 779.58
2447318.905 309717.207 764.03608 1.21 WIL-67 779.58
2447318.905 309717.207 763.8032 0.91 WIL-67 779.58
2447318.905 309717.207 763.57032 1.06 WIL-67 779.58
2447318.905 309717.207 763.28824 2.15 WIL-67 779.58
2447318.905 309717.207 763.01272 1.53 WIL-67 779.58
2447318.905 309717.207 762.76672 1.05 WIL-67 779.58
2447318.905 309717.207 762.4912 0.95 WIL-67 779.58
2447318.905 309717.207 762.2124 1.2 WIL-67 779.58
2447318.905 309717.207 761.93032 2.33 WIL-67 779.58
2447318.905 309717.207 761.6548 1.75 WIL-67 779.58
2447318.905 309717.207 761.376 1.97 WIL-67 779.58
2447318.905 309717.207 761.1136 2.53 WIL-67 779.58
2447318.905 309717.207 760.83808 1.56 WIL-67 779.58
2447318.905 309717.207 760.55928 1.92 WIL-67 779.58
2447318.905 309717.207 760.25096 2.19 WIL-67 779.58
2447318.905 309717.207 760.00168 1.34 WIL-67 779.58
2447318.905 309717.207 759.72616 1.53 WIL-67 779.58
2447318.905 309717.207 759.44408 1.28 WIL-67 779.58
2447318.905 309717.207 759.16528 1.16 WIL-67 779.58
2447318.905 309717.207 758.8832 1.6 WIL-67 779.58
2447318.905 309717.207 758.6044 1.17 WIL-67 779.58
2447318.905 309717.207 758.3256 0.99 WIL-67 779.58
2447318.905 309717.207 758.0796 0.99 WIL-67 779.58
2447318.905 309717.207 757.8172 1.67 WIL-67 779.58
2447318.905 309717.207 757.54168 1.73 WIL-67 779.58
2447318.905 309717.207 757.26288 1.94 WIL-67 779.58
2447318.905 309717.207 756.9808 2.41 WIL-67 779.58
2447318.905 309717.207 756.69872 3.94 WIL-67 779.58
2447318.905 309717.207 756.41992 6.43 WIL-67 779.58
2447318.905 309717.207 756.13456 2.8 WIL-67 779.58
2447318.905 309717.207 755.85248 1.5 WIL-67 779.58
2447318.905 309717.207 755.5704 2.63 WIL-67 779.58
2447318.905 309717.207 755.3244 1.68 WIL-67 779.58
2447318.905 309717.207 755.03904 1.55 WIL-67 779.58
2447318.905 309717.207 754.80288 1.95 WIL-67 779.58
2447318.905 309717.207 754.488 1.48 WIL-67 779.58
2447318.905 309717.207 754.2092 1.41 WIL-67 779.58
2447318.905 309717.207 753.92712 1.43 WIL-67 779.58
2447318.905 309717.207 753.64504 1.34 WIL-67 779.58
2447318.905 309717.207 753.35968 1.37 WIL-67 779.58
2447318.905 309717.207 753.0776 1.33 WIL-67 779.58
2447318.905 309717.207 752.82832 1.34 WIL-67 779.58
2447318.905 309717.207 752.54296 1.02 WIL-67 779.58
2447318.905 309717.207 752.2576 1.15 WIL-67 779.58
2447318.905 309717.207 751.97224 1.18 WIL-67 779.58
2447318.905 309717.207 751.68688 1.15 WIL-67 779.58
2447318.905 309717.207 751.42448 0.9 WIL-67 779.58
2447318.905 309717.207 751.13584 1.23 WIL-67 779.58
2447318.905 309717.207 750.90952 1.16 WIL-67 779.58
2447318.905 309717.207 750.634 1.07 WIL-67 779.58
2447318.905 309717.207 750.35192 1.17 WIL-67 779.58
2447318.905 309717.207 750.06656 1.08 WIL-67 779.58
```

```
2447318.905 309717.207 749.7812 1.26 WIL-67 779.58
2447318.905 309717.207 749.49584 1.21 WIL-67 779.58
2447318.905 309717.207 749.21048 1.25 WIL-67 779.58
2447318.905 309717.207 748.92184 1.28 WIL-67 779.58
2447318.905 309717.207 748.67256 1.12 WIL-67 779.58
2447318.905 309717.207 748.39048 1.31 WIL-67 779.58
2447318.905 309717.207 748.1084 1.28 WIL-67 779.58
2447318.905 309717.207 747.82304 1.47 WIL-67 779.58
2447318.905 309717.207 747.52784 1.37 WIL-67 779.58
2447318.905 309717.207 747.24248 1.61 WIL-67 779.58
2447318.905 309717.207 746.95712 1.45 WIL-67 779.58
2447318.905 309717.207 746.70784 1.47 WIL-67 779.58
2447318.905 309717.207 746.42248 1.37 WIL-67 779.58
2447318.905 309717.207 746.13712 1.57 WIL-67 779.58
2447318.905 309717.207 745.85176 1.64 WIL-67 779.58
2447318.905 309717.207 745.56312 1.69 WIL-67 779.58
2447318.905 309717.207 745.27776 1.74 WIL-67 779.58
2447318.905 309717.207 744.98912 1.73 WIL-67 779.58
2447318.905 309717.207 744.70048 1.67 WIL-67 779.58
2447318.905 309717.207 744.60536 1.74 WIL-67 779.58
2447121.565 309795.801 782.08816 1.48 WIL-68 782.098
2447121.565 309795.801 781.81264 1.08 WIL-68 782.098
2447121.565 309795.801 781.5568 1.13 WIL-68 782.098
2447121.565 309795.801 781.2944 0.99 WIL-68 782.098
2447121.565 309795.801 781.00248 1.1 WIL-68 782.098
2447121.565 309795.801 780.73024 1 WIL-68 782.098
2447121.565 309795.801 780.4908 1.12 WIL-68 782.098
2447121.565 309795.801 780.212 1.37 WIL-68 782.098
2447121.565 309795.801 779.9332 1.62 WIL-68 782.098
2447121.565 309795.801 779.65112 1.08 WIL-68 782.098
2447121.565 309795.801 779.41496 0.92 WIL-68 782.098
2447121.565 309795.801 779.18864 1 WIL-68 782.098
2447121.565 309795.801 778.91312 1.08 WIL-68 782.098
2447121.565 309795.801 778.6868 1.02 WIL-68 782.098
2447121.565 309795.801 778.3752 1.07 WIL-68 782.098
2447121.565 309795.801 778.08656 1.04 WIL-68 782.098
2447121.565 309795.801 777.79792 0.7 WIL-68 782.098
2447121.565 309795.801 777.54864 0.87 WIL-68 782.098
2447121.565 309795.801 777.26656 1 WIL-68 782.098
2447121.565 309795.801 776.97464 0.96 WIL-68 782.098
2447121.565 309795.801 776.69256 1.12 WIL-68 782.098
2447121.565 309795.801 776.42032 1.15 WIL-68 782.098
2447121.565 309795.801 776.18416 1.03 WIL-68 782.098
2447121.565 309795.801 775.88896 0.93 WIL-68 782.098
2447121.565 309795.801 775.66592 0.95 WIL-68 782.098
2447121.565 309795.801 775.41008 0.83 WIL-68 782.098
2447121.565 309795.801 775.18704 1.09 WIL-68 782.098
2447121.565 309795.801 774.88528 0.96 WIL-68 782.098
2447121.565 309795.801 774.58352 1.14 WIL-68 782.098
2447121.565 309795.801 774.3244 1.08 WIL-68 782.098
2447121.565 309795.801 774.09808 1.14 WIL-68 782.098
2447121.565 309795.801 773.8324 1.06 WIL-68 782.098
2447121.565 309795.801 773.60936 1.04 WIL-68 782.098
2447121.565 309795.801 773.31744 0.84 WIL-68 782.098
2447121.565 309795.801 773.05832 1.03 WIL-68 782.098
2447121.565 309795.801 772.7828 1.11 WIL-68 782.098
2447121.565 309795.801 772.504 1.06 WIL-68 782.098
2447121.565 309795.801 772.22192 1.05 WIL-68 782.098
2447121.565 309795.801 771.9464 1.08 WIL-68 782.098
2447121.565 309795.801 771.66432 1.1 WIL-68 782.098
2447121.565 309795.801 771.38224 0.81 WIL-68 782.098
2447121.565 309795.801 771.10016 0.93 WIL-68 782.098
2447121.565 309795.801 770.85088 1.03 WIL-68 782.098
2447121.565 309795.801 770.57208 0.94 WIL-68 782.098
2447121.565 309795.801 770.28672 0.85 WIL-68 782.098
2447121.565 309795.801 770.00464 0.83 WIL-68 782.098
2447121.565 309795.801 769.77504 1.09 WIL-68 782.098
2447121.565 309795.801 769.53232 0.86 WIL-68 782.098
2447121.565 309795.801 769.25024 0.95 WIL-68 782.098
2447121.565 309795.801 768.96488 0.92 WIL-68 782.098
2447121.565 309795.801 768.70904 0.92 WIL-68 782.098
2447121.565 309795.801 768.38104 2.97 WIL-68 782.098
2447121.565 309795.801 768.08912 3.27 WIL-68 782.098
2447121.565 309795.801 767.80048 2.4 WIL-68 782.098
2447121.565 309795.801 767.50856 3.28 WIL-68 782.098
2447121.565 309795.801 767.24944 2.51 WIL-68 782.098
2447121.565 309795.801 766.9608 2.27 WIL-68 782.098
2447121.565 309795.801 766.66888 2.49 WIL-68 782.098
2447121.565 309795.801 766.37696 1.88 WIL-68 782.098
2447121.565 309795.801 766.11456 2.45 WIL-68 782.098
2447121.565 309795.801 765.82592 3.6 WIL-68 782.098
2447121.565 309795.801 765.534 3.17 WIL-68 782.098
2447121.565 309795.801 765.24208 3.49 WIL-68 782.098
2447121.565 309795.801 764.95344 3.87 WIL-68 782.098
2447121.565 309795.801 764.65824 3.26 WIL-68 782.098
2447121.565 309795.801 764.3696 2.37 WIL-68 782.098
2447121.565 309795.801 764.07112 2.36 WIL-68 782.098
2447121.565 309795.801 763.78576 2.78 WIL-68 782.098
2447121.565 309795.801 763.49712 2.69 WIL-68 782.098
2447121.565 309795.801 763.2708 2.86 WIL-68 782.098
2447121.565 309795.801 763.0084 2.98 WIL-68 782.098
2447121.565 309795.801 762.71648 3.14 WIL-68 782.098
2447121.565 309795.801 762.42456 2.95 WIL-68 782.098
2447121.565 309795.801 762.13264 3.1 WIL-68 782.098
2447121.565 309795.801 761.83744 3.4 WIL-68 782.098
2447121.565 309795.801 761.54224 3.58 WIL-68 782.098
2447121.565 309795.801 761.20768 3.24 WIL-68 782.098
2447121.565 309795.801 760.91248 3.15 WIL-68 782.098
2447121.565 309795.801 760.614 3.22 WIL-68 782.098
2447121.565 309795.801 760.35816 3.93 WIL-68 782.098
2447121.565 309795.801 760.13512 2.71 WIL-68 782.098
2447121.565 309795.801 759.876 0.93 WIL-68 782.098
```

```
2447121.565 309795.801 759.58736 0.83 WIL-68 782.098
2447121.565 309795.801 759.29216 0.8 WIL-68 782.098
2447121.565 309795.801 759.00352 0.86 WIL-68 782.098
2447121.565 309795.801 758.70832 0.82 WIL-68 782.098
2447121.565 309795.801 758.4164 0.96 WIL-68 782.098
2447121.565 309795.801 758.1212 0.91 WIL-68 782.098
2447121.565 309795.801 757.826 0.94 WIL-68 782.098
2447121.565 309795.801 757.57016 0.54 WIL-68 782.098
2447121.565 309795.801 757.27496 0.56 WIL-68 782.098
2447121.565 309795.801 756.98304 1.98 WIL-68 782.098
2447121.565 309795.801 756.74688 2.73 WIL-68 782.098
2447121.565 309795.801 756.45496 1.83 WIL-68 782.098
2447121.565 309795.801 756.16304 2.55 WIL-68 782.098
2447121.565 309795.801 755.87112 2.92 WIL-68 782.098
2447121.565 309795.801 755.57592 2.56 WIL-68 782.098
2447121.565 309795.801 755.28728 2.14 WIL-68 782.098
2447121.565 309795.801 755.03472 2 WIL-68 782.098
2447121.565 309795.801 754.74608 1.75 WIL-68 782.098
2447121.565 309795.801 754.45416 2.69 WIL-68 782.098
2447121.565 309795.801 754.1688 3.76 WIL-68 782.098
2447121.565 309795.801 753.87688 2.82 WIL-68 782.098
2447121.565 309795.801 753.60136 3.41 WIL-68 782.098
2447121.565 309795.801 753.27336 4.36 WIL-68 782.098
2447121.565 309795.801 752.97488 4.88 WIL-68 782.098
2447121.565 309795.801 752.71248 4.99 WIL-68 782.098
2447121.565 309795.801 752.48944 5.32 WIL-68 782.098
2447121.565 309795.801 752.22704 5.04 WIL-68 782.098
2447121.565 309795.801 752.00072 3.03 WIL-68 782.098
2447121.565 309795.801 751.70552 2.68 WIL-68 782.098
2447121.565 309795.801 751.40048 0.56 WIL-68 782.098
2447121.565 309795.801 751.10528 3.72 WIL-68 782.098
2447121.565 309795.801 750.80352 2.82 WIL-68 782.098
2447121.565 309795.801 750.50832 3.64 WIL-68 782.098
2447121.565 309795.801 750.2164 5.35 WIL-68 782.098
2447121.565 309795.801 749.92448 3.34 WIL-68 782.098
2447121.565 309795.801 749.626 4.36 WIL-68 782.098
2447121.565 309795.801 749.3636 3.89 WIL-68 782.098
2447121.565 309795.801 749.0684 4.03 WIL-68 782.098
2447121.565 309795.801 748.77648 3.82 WIL-68 782.098
2447121.565 309795.801 748.48128 3.83 WIL-68 782.098
2447121.565 309795.801 748.18936 2.94 WIL-68 782.098
2447121.565 309795.801 747.89416 3.76 WIL-68 782.098
2447121.565 309795.801 747.63504 4.11 WIL-68 782.098
2447121.565 309795.801 747.40544 2.72 WIL-68 782.098
2447121.565 309795.801 747.1004 4 WIL-68 782.098
2447121.565 309795.801 746.79864 2.55 WIL-68 782.098
2447121.565 309795.801 746.54936 3.47 WIL-68 782.098
2447121.565 309795.801 746.32632 3.58 WIL-68 782.098
2447121.565 309795.801 746.03112 3.23 WIL-68 782.098
2447121.565 309795.801 745.76544 3.16 WIL-68 782.098
2447121.565 309795.801 745.53912 3.24 WIL-68 782.098
2447121.565 309795.801 745.23736 3.42 WIL-68 782.098
2447121.565 309795.801 744.97496 3.34 WIL-68 782.098
2447121.565 309795.801 744.74864 1.87 WIL-68 782.098
2447121.565 309795.801 744.4436 2.54 WIL-68 782.098
2447121.565 309795.801 744.14512 3.29 WIL-68 782.098
2447121.565 309795.801 743.84336 3.75 WIL-68 782.098
2447121.565 309795.801 743.5744 3.9 WIL-68 782.098
2447096.461 309770.247 781.305 1.87 WIL-69 781.305
2447096.461 309770.247 780.98028 2.43 WIL-69 781.305
2447096.461 309770.247 780.70476 1.59 WIL-69 781.305
2447096.461 309770.247 780.40956 1.4 WIL-69 781.305
2447096.461 309770.247 780.1242 1.23 WIL-69 781.305
2447096.461 309770.247 779.86508 1.49 WIL-69 781.305
2447096.461 309770.247 779.58956 1.47 WIL-69 781.305
2447096.461 309770.247 779.32716 1.34 WIL-69 781.305
2447096.461 309770.247 779.06148 1.43 WIL-69 781.305
2447096.461 309770.247 778.72692 1.36 WIL-69 781.305
2447096.461 309770.247 778.42188 1.33 WIL-69 781.305
2447096.461 309770.247 778.15292 1.39 WIL-69 781.305
2447096.461 309770.247 777.88724 1.35 WIL-69 781.305
2447096.461 309770.247 777.62156 1.29 WIL-69 781.305
2447096.461 309770.247 777.28044 1.5 WIL-69 781.305
2447096.461 309770.247 777.0082 1.33 WIL-69 781.305
2447096.461 309770.247 776.73596 1.38 WIL-69 781.305
2447096.461 309770.247 776.46044 1.42 WIL-69 781.305
2447096.461 309770.247 776.19148 1.46 WIL-69 781.305
2447096.461 309770.247 775.91596 1.29 WIL-69 781.305
2447096.461 309770.247 775.64044 1.24 WIL-69 781.305
2447096.461 309770.247 775.38788 1.15 WIL-69 781.305
2447096.461 309770.247 775.1222 1.15 WIL-69 781.305
2447096.461 309770.247 774.78436 1.21 WIL-69 781.305
2447096.461 309770.247 774.51212 1.27 WIL-69 781.305
2447096.461 309770.247 774.23988 1.11 WIL-69 781.305
2447096.461 309770.247 773.96108 1.2 WIL-69 781.305
2447096.461 309770.247 773.68556 1.28 WIL-69 781.305
2447096.461 309770.247 773.41004 1.42 WIL-69 781.305
2447096.461 309770.247 773.06236 1.35 WIL-69 781.305
2447096.461 309770.247 772.78356 1.25 WIL-69 781.305
2447096.461 309770.247 772.51132 1.36 WIL-69 781.305
2447096.461 309770.247 772.24236 1.38 WIL-69 781.305
2447096.461 309770.247 772.01604 1.32 WIL-69 781.305
2447096.461 309770.247 771.7438 1.4 WIL-69 781.305
2447096.461 309770.247 771.465 1.41 WIL-69 781.305
2447096.461 309770.247 771.19276 1.35 WIL-69 781.305
2447096.461 309770.247 770.92708 1.27 WIL-69 781.305
2447096.461 309770.247 770.60236 1.21 WIL-69 781.305
2447096.461 309770.247 770.34652 1.31 WIL-69 781.305
2447096.461 309770.247 770.0874 1.08 WIL-69 781.305
2447096.461 309770.247 769.83484 1.25 WIL-69 781.305
2447096.461 309770.247 769.57572 1.32 WIL-69 781.305
2447096.461 309770.247 769.3166 1.25 WIL-69 781.305
```

```
2447096.461 309770.247 768.99188 1.34 WIL-69 781.305
2447096.461 309770.247 768.72292 1.15 WIL-69 781.305
2447096.461 309770.247 768.46708 1.29 WIL-69 781.305
2447096.461 309770.247 768.21452 1.14 WIL-69 781.305
2447096.461 309770.247 767.89636 1.42 WIL-69 781.305
2447096.461 309770.247 767.63724 1.31 WIL-69 781.305
2447096.461 309770.247 767.37812 1.56 WIL-69 781.305
2447096.461 309770.247 767.12556 1.48 WIL-69 781.305
2447096.461 309770.247 766.80084 1.4 WIL-69 781.305
2447096.461 309770.247 766.545 1.5 WIL-69 781.305
2447096.461 309770.247 766.28916 1.49 WIL-69 781.305
2447096.461 309770.247 766.03332 1.44 WIL-69 781.305
2447096.461 309770.247 765.81028 1.35 WIL-69 781.305
2447096.461 309770.247 765.56428 1.46 WIL-69 781.305
2447096.461 309770.247 765.24612 1.37 WIL-69 781.305
2447096.461 309770.247 764.99684 1.35 WIL-69 781.305
2447096.461 309770.247 764.741 1.37 WIL-69 781.305
2447096.461 309770.247 764.48844 1.29 WIL-69 781.305
2447096.461 309770.247 764.22932 1.49 WIL-69 781.305
2447096.461 309770.247 763.91116 1.51 WIL-69 781.305
2447096.461 309770.247 763.6586 1.49 WIL-69 781.305
2447096.461 309770.247 763.3962 1.36 WIL-69 781.305
2447096.461 309770.247 763.12396 1.45 WIL-69 781.305
2447096.461 309770.247 762.855 1.42 WIL-69 781.305
2447096.461 309770.247 762.61884 1.51 WIL-69 781.305
2447096.461 309770.247 762.37612 1.36 WIL-69 781.305
2447096.461 309770.247 762.11372 1.26 WIL-69 781.305
2447096.461 309770.247 761.85132 1.4 WIL-69 781.305
2447096.461 309770.247 761.58892 1.3 WIL-69 781.305
2447096.461 309770.247 761.35932 1.25 WIL-69 781.305
2447096.461 309770.247 761.09036 1.39 WIL-69 781.305
2447096.461 309770.247 760.82468 1.27 WIL-69 781.305
2447096.461 309770.247 760.559 1.29 WIL-69 781.305
2447096.461 309770.247 760.29004 1.37 WIL-69 781.305
2447096.461 309770.247 760.02108 1.48 WIL-69 781.305
2447096.461 309770.247 759.7554 1.48 WIL-69 781.305
2447096.461 309770.247 759.48972 1.47 WIL-69 781.305
2447096.461 309770.247 759.18796 1.44 WIL-69 781.305
2447096.461 309770.247 758.919 1.41 WIL-69 781.305
2447096.461 309770.247 758.65004 1.38 WIL-69 781.305
2447096.461 309770.247 758.38108 1.4 WIL-69 781.305
2447096.461 309770.247 758.10884 1.39 WIL-69 781.305
2447096.461 309770.247 757.8366 1.41 WIL-69 781.305
2447096.461 309770.247 757.56764 1.36 WIL-69 781.305
2447096.461 309770.247 757.3282 1.37 WIL-69 781.305
2447096.461 309770.247 757.05924 1.53 WIL-69 781.305
2447096.461 309770.247 756.787 1.59 WIL-69 781.305
2447096.461 309770.247 756.51804 1.4 WIL-69 781.305
2447096.461 309770.247 756.2458 1.26 WIL-69 781.305
2447096.461 309770.247 755.9342 1.5 WIL-69 781.305
2447096.461 309770.247 755.66852 1.53 WIL-69 781.305
2447096.461 309770.247 755.40284 1.46 WIL-69 781.305
2447096.461 309770.247 755.1306 1.47 WIL-69 781.305
2447096.461 309770.247 754.85836 1.51 WIL-69 781.305
2447096.461 309770.247 754.59268 1.53 WIL-69 781.305
2447096.461 309770.247 754.35324 1.45 WIL-69 781.305
2447096.461 309770.247 754.081 1.27 WIL-69 781.305
2447096.461 309770.247 753.80876 1.36 WIL-69 781.305
2447096.461 309770.247 753.54308 1.42 WIL-69 781.305
2447096.461 309770.247 753.27084 1.22 WIL-69 781.305
2447096.461 309770.247 753.00188 1.51 WIL-69 781.305
2447096.461 309770.247 752.74276 1.33 WIL-69 781.305
2447096.461 309770.247 752.48364 1.38 WIL-69 781.305
2447096.461 309770.247 752.21468 1.59 WIL-69 781.305
2447096.461 309770.247 751.9818 1.42 WIL-69 781.305
2447096.461 309770.247 751.71612 1.48 WIL-69 781.305
2447096.461 309770.247 751.44716 1.73 WIL-69 781.305
2447096.461 309770.247 751.18148 1.64 WIL-69 781.305
2447096.461 309770.247 750.9158 1.55 WIL-69 781.305
2447096.461 309770.247 750.6534 1.33 WIL-69 781.305
2447096.461 309770.247 750.39428 1.54 WIL-69 781.305
2447096.461 309770.247 750.1286 1.48 WIL-69 781.305
2447096.461 309770.247 749.8662 1.35 WIL-69 781.305
2447096.461 309770.247 749.59396 1.17 WIL-69 781.305
2447096.461 309770.247 749.33484 1.18 WIL-69 781.305
2447096.461 309770.247 749.06588 1.19 WIL-69 781.305
2447096.461 309770.247 748.79692 1.2 WIL-69 781.305
2447096.461 309770.247 748.53124 1.16 WIL-69 781.305
2447096.461 309770.247 748.26228 1.23 WIL-69 781.305
2447096.461 309770.247 747.99332 1.08 WIL-69 781.305
2447096.461 309770.247 747.72108 1.08 WIL-69 781.305
2447096.461 309770.247 747.4554 1.06 WIL-69 781.305
2447096.461 309770.247 747.21924 1.13 WIL-69 781.305
2447096.461 309770.247 746.95028 1.07 WIL-69 781.305
2447096.461 309770.247 746.6846 1.16 WIL-69 781.305
2447096.461 309770.247 746.41892 1.12 WIL-69 781.305
2447096.461 309770.247 746.41564 1.07 WIL-69 781.305
2446937.055 309815.094 782.049 2.6 WIL-70 782.049
2446937.055 309815.094 781.7702 6.8 WIL-70 782.049
2446937.055 309815.094 781.49796 1.14 WIL-70 782.049
2446937.055 309815.094 781.23556 0.34 WIL-70 782.049
2446937.055 309815.094 780.96988 0.27 WIL-70 782.049
2446937.055 309815.094 780.69436 0.31 WIL-70 782.049
2446937.055 309815.094 780.42868 0.29 WIL-70 782.049
2446937.055 309815.094 780.0974 0.33 WIL-70 782.049
2446937.055 309815.094 779.83172 0.31 WIL-70 782.049
2446937.055 309815.094 779.56604 0.29 WIL-70 782.049
2446937.055 309815.094 779.31348 0.4 WIL-70 782.049
2446937.055 309815.094 779.04124 0.34 WIL-70 782.049
2446937.055 309815.094 778.70012 0.36 WIL-70 782.049
2446937.055 309815.094 778.42132 0.39 WIL-70 782.049
2446937.055 309815.094 778.1458 0.34 WIL-70 782.049
```

2446937.055 309815.094 777.86044 0.36 WIL-70 782.049
2446937.055 309815.094 777.58164 0.36 WIL-70 782.049
2446937.055 309815.094 777.29956 0.35 WIL-70 782.049
2446937.055 309815.094 776.9486 0.4 WIL-70 782.049
2446937.055 309815.094 776.66324 0.41 WIL-70 782.049
2446937.055 309815.094 776.3746 0.46 WIL-70 782.049
2446937.055 309815.094 776.13188 0.52 WIL-70 782.049
2446937.055 309815.094 775.8498 0.51 WIL-70 782.049
2446937.055 309815.094 775.56444 0.52 WIL-70 782.049
2446937.055 309815.094 775.2758 0.45 WIL-70 782.049
2446937.055 309815.094 774.91828 0.45 WIL-70 782.049
2446937.055 309815.094 774.63292 0.48 WIL-70 782.049
2446937.055 309815.094 774.341 0.42 WIL-70 782.049
2446937.055 309815.094 774.05236 0.39 WIL-70 782.049
2446937.055 309815.094 773.76372 0.44 WIL-70 782.049
2446937.055 309815.094 773.40292 0.41 WIL-70 782.049
2446937.055 309815.094 773.10772 0.41 WIL-70 782.049
2446937.055 309815.094 772.85516 0.46 WIL-70 782.049
2446937.055 309815.094 772.63212 0.43 WIL-70 782.049
2446937.055 309815.094 772.3402 0.48 WIL-70 782.049
2446937.055 309815.094 772.04828 0.52 WIL-70 782.049
2446937.055 309815.094 771.8154 0.48 WIL-70 782.049
2446937.055 309815.094 771.58252 0.47 WIL-70 782.049
2446937.055 309815.094 771.27092 0.43 WIL-70 782.049
2446937.055 309815.094 770.97244 0.48 WIL-70 782.049
2446937.055 309815.094 770.68052 0.48 WIL-70 782.049
2446937.055 309815.094 770.45092 0.47 WIL-70 782.049
2446937.055 309815.094 770.159 0.46 WIL-70 782.049
2446937.055 309815.094 769.93268 0.49 WIL-70 782.049
2446937.055 309815.094 769.65388 0.48 WIL-70 782.049
2446937.055 309815.094 769.36196 0.58 WIL-70 782.049
2446937.055 309815.094 769.13892 0.73 WIL-70 782.049
2446937.055 309815.094 768.9126 1.07 WIL-70 782.049
2446937.055 309815.094 768.68956 1.41 WIL-70 782.049
2446937.055 309815.094 768.39436 1.09 WIL-70 782.049
2446937.055 309815.094 768.08604 0.81 WIL-70 782.049
2446937.055 309815.094 767.863 0.85 WIL-70 782.049
2446937.055 309815.094 767.56452 0.53 WIL-70 782.049
2446937.055 309815.094 767.26932 0.43 WIL-70 782.049
2446937.055 309815.094 766.9774 0.43 WIL-70 782.049
2446937.055 309815.094 766.75108 0.45 WIL-70 782.049
2446937.055 309815.094 766.42636 0.6 WIL-70 782.049
2446937.055 309815.094 766.13772 0.5 WIL-70 782.049
2446937.055 309815.094 765.84908 0.55 WIL-70 782.049
2446937.055 309815.094 765.56044 0.46 WIL-70 782.049
2446937.055 309815.094 765.3374 0.47 WIL-70 782.049
2446937.055 309815.094 765.11436 0.42 WIL-70 782.049
2446937.055 309815.094 764.83228 0.4 WIL-70 782.049
2446937.055 309815.094 764.57316 0.46 WIL-70 782.049
2446937.055 309815.094 764.24844 0.43 WIL-70 782.049
2446937.055 309815.094 763.97292 1.26 WIL-70 782.049
2446937.055 309815.094 763.69412 1.09 WIL-70 782.049
2446937.055 309815.094 763.41532 1.52 WIL-70 782.049
2446937.055 309815.094 763.1234 1.71 WIL-70 782.049
2446937.055 309815.094 762.88396 1.65 WIL-70 782.049
2446937.055 309815.094 762.57892 1.45 WIL-70 782.049
2446937.055 309815.094 762.3034 1.56 WIL-70 782.049
2446937.055 309815.094 762.02788 2.74 WIL-70 782.049
2446937.055 309815.094 761.75236 1.28 WIL-70 782.049
2446937.055 309815.094 761.47356 0.73 WIL-70 782.049
2446937.055 309815.094 761.20132 0.99 WIL-70 782.049
2446937.055 309815.094 760.92252 0.66 WIL-70 782.049
2446937.055 309815.094 760.647 0.51 WIL-70 782.049
2446937.055 309815.094 760.37148 0.48 WIL-70 782.049
2446937.055 309815.094 760.14844 0.46 WIL-70 782.049
2446937.055 309815.094 759.84996 0.74 WIL-70 782.049
2446937.055 309815.094 759.581 0.35 WIL-70 782.049
2446937.055 309815.094 759.3022 0.53 WIL-70 782.049
2446937.055 309815.094 759.02668 0.46 WIL-70 782.049
2446937.055 309815.094 758.78396 0.56 WIL-70 782.049
2446937.055 309815.094 758.50516 0.81 WIL-70 782.049
2446937.055 309815.094 758.22964 1.06 WIL-70 782.049
2446937.055 309815.094 757.94756 0.5 WIL-70 782.049
2446937.055 309815.094 757.66876 0.41 WIL-70 782.049
2446937.055 309815.094 757.38996 0.74 WIL-70 782.049
2446937.055 309815.094 757.11444 0.49 WIL-70 782.049
2446937.055 309815.094 756.84876 0.83 WIL-70 782.049
2446937.055 309815.094 756.5798 0.71 WIL-70 782.049
2446937.055 309815.094 756.301 0.52 WIL-70 782.049
2446937.055 309815.094 756.0222 0.49 WIL-70 782.049
2446937.055 309815.094 755.74668 0.6 WIL-70 782.049
2446937.055 309815.094 755.4646 0.64 WIL-70 782.049
2446937.055 309815.094 755.18252 0.54 WIL-70 782.049
2446937.055 309815.094 754.907 0.62 WIL-70 782.049
2446937.055 309815.094 754.62164 0.51 WIL-70 782.049
2446937.055 309815.094 754.37892 0.5 WIL-70 782.049
2446937.055 309815.094 754.10012 0.52 WIL-70 782.049
2446937.055 309815.094 753.81804 0.55 WIL-70 782.049
2446937.055 309815.094 753.52284 0.62 WIL-70 782.049
2446937.055 309815.094 753.24404 0.67 WIL-70 782.049
2446937.055 309815.094 752.95868 0.56 WIL-70 782.049
2446937.055 309815.094 752.7094 0.55 WIL-70 782.049
2446937.055 309815.094 752.42404 0.54 WIL-70 782.049
2446937.055 309815.094 752.14524 0.57 WIL-70 782.049
2446937.055 309815.094 751.8566 0.45 WIL-70 782.049
2446937.055 309815.094 751.57124 0.59 WIL-70 782.049
2446937.055 309815.094 751.28916 0.66 WIL-70 782.049
2446937.055 309815.094 751.00708 0.73 WIL-70 782.049
2446937.055 309815.094 750.71844 0.61 WIL-70 782.049
2446937.055 309815.094 750.41012 0.97 WIL-70 782.049
2446937.055 309815.094 750.12804 1.28 WIL-70 782.049
2446937.055 309815.094 749.84268 0.88 WIL-70 782.049

```
2446937.055 309815.094 749.53108 1.67 WIL-70 782.049
2446937.055 309815.094 749.24572 1.85 WIL-70 782.049
2446937.055 309815.094 748.96036 1.49 WIL-70 782.049
2446937.055 309815.094 748.675 1.41 WIL-70 782.049
2446937.055 309815.094 748.38636 1.12 WIL-70 782.049
2446937.055 309815.094 748.09772 0.83 WIL-70 782.049
2446937.055 309815.094 747.80908 1.23 WIL-70 782.049
2446937.055 309815.094 747.527 1.76 WIL-70 782.049
2446937.055 309815.094 747.23836 1.43 WIL-70 782.049
2446937.055 309815.094 747.12028 1.34 WIL-70 782.049
2446895.633 309811.408 782.47 -0.19 WIL-71 782.47
2446895.633 309811.408 782.16496 0.56 WIL-71 782.47
2446895.633 309811.408 781.93864 0.59 WIL-71 782.47
2446895.633 309811.408 781.71232 1.45 WIL-71 782.47
2446895.633 309811.408 781.48272 0.32 WIL-71 782.47
2446895.633 309811.408 781.24984 0.34 WIL-71 782.47
2446895.633 309811.408 780.95792 0.26 WIL-71 782.47
2446895.633 309811.408 780.72504 0.31 WIL-71 782.47
2446895.633 309811.408 780.49544 0.42 WIL-71 782.47
2446895.633 309811.408 780.256 0.31 WIL-71 782.47
2446895.633 309811.408 780.02968 0.3 WIL-71 782.47
2446895.633 309811.408 779.77384 0.38 WIL-71 782.47
2446895.633 309811.408 779.5508 0.31 WIL-71 782.47
2446895.633 309811.408 779.26872 0.28 WIL-71 782.47
2446895.633 309811.408 779.02928 0.27 WIL-71 782.47
2446895.633 309811.408 778.78656 0.31 WIL-71 782.47
2446895.633 309811.408 778.54384 0.28 WIL-71 782.47
2446895.633 309811.408 778.30112 0.26 WIL-71 782.47
2446895.633 309811.408 778.05512 0.2 WIL-71 782.47
2446895.633 309811.408 777.74024 0.3 WIL-71 782.47
2446895.633 309811.408 777.49096 0.28 WIL-71 782.47
2446895.633 309811.408 777.24168 0.23 WIL-71 782.47
2446895.633 309811.408 776.98584 0.23 WIL-71 782.47
2446895.633 309811.408 776.75296 0.26 WIL-71 782.47
2446895.633 309811.408 776.4348 0.16 WIL-71 782.47
2446895.633 309811.408 776.15928 0.06 WIL-71 782.47
2446895.633 309811.408 775.88048 0.06 WIL-71 782.47
2446895.633 309811.408 775.60168 0 WIL-71 782.47
2446895.633 309811.408 775.3196 0.03 WIL-71 782.47
2446895.633 309811.408 775.0736 0.09 WIL-71 782.47
2446895.633 309811.408 774.79152 0.03 WIL-71 782.47
2446895.633 309811.408 774.50616 0.02 WIL-71 782.47
2446895.633 309811.408 774.2208 -0.02 WIL-71 782.47
2446895.633 309811.408 773.93544 0.06 WIL-71 782.47
2446895.633 309811.408 773.65008 0.03 WIL-71 782.47
2446895.633 309811.408 773.38112 0.11 WIL-71 782.47
2446895.633 309811.408 773.10232 0.07 WIL-71 782.47
2446895.633 309811.408 772.81696 0.06 WIL-71 782.47
2446895.633 309811.408 772.53488 0.13 WIL-71 782.47
2446895.633 309811.408 772.25608 0.06 WIL-71 782.47
2446895.633 309811.408 771.97072 0 WIL-71 782.47
2446895.633 309811.408 771.68536 -0.04 WIL-71 782.47
2446895.633 309811.408 771.4 0.02 WIL-71 782.47
2446895.633 309811.408 771.11464 0.08 WIL-71 782.47
2446895.633 309811.408 770.83256 -0.02 WIL-71 782.47
2446895.633 309811.408 770.58 -0.03 WIL-71 782.47
2446895.633 309811.408 770.29464 0 WIL-71 782.47
2446895.633 309811.408 769.98632 -0.02 WIL-71 782.47
2446895.633 309811.408 769.7436 -0.06 WIL-71 782.47
2446895.633 309811.408 769.45824 -0.05 WIL-71 782.47
2446895.633 309811.408 769.17288 -0.02 WIL-71 782.47
2446895.633 309811.408 768.88424 -0.02 WIL-71 782.47
2446895.633 309811.408 768.59888 0.07 WIL-71 782.47
2446895.633 309811.408 768.31024 -0.01 WIL-71 782.47
2446895.633 309811.408 768.0216 0.29 WIL-71 782.47
2446895.633 309811.408 767.72968 0.37 WIL-71 782.47
2446895.633 309811.408 767.47712 0.98 WIL-71 782.47
2446895.633 309811.408 767.18848 0.01 WIL-71 782.47
2446895.633 309811.408 766.92608 0.05 WIL-71 782.47
2446895.633 309811.408 766.65056 0.09 WIL-71 782.47
2446895.633 309811.408 766.36848 0.16 WIL-71 782.47
2446895.633 309811.408 766.0864 1.03 WIL-71 782.47
2446895.633 309811.408 765.83712 0.68 WIL-71 782.47
2446895.633 309811.408 765.54848 1.58 WIL-71 782.47
2446895.633 309811.408 765.26312 0.1 WIL-71 782.47
2446895.633 309811.408 764.94168 0.03 WIL-71 782.47
2446895.633 309811.408 764.65632 -0.02 WIL-71 782.47
2446895.633 309811.408 764.41032 -0.02 WIL-71 782.47
2446895.633 309811.408 764.12496 -0.02 WIL-71 782.47
2446895.633 309811.408 763.81336 -0.01 WIL-71 782.47
2446895.633 309811.408 763.528 0 WIL-71 782.47
2446895.633 309811.408 763.24264 -0.02 WIL-71 782.47
2446895.633 309811.408 762.94744 0 WIL-71 782.47
2446895.633 309811.408 762.66208 -0.05 WIL-71 782.47
2446895.633 309811.408 762.37016 -0.03 WIL-71 782.47
2446895.633 309811.408 762.1176 -0.1 WIL-71 782.47
2446895.633 309811.408 761.82568 0.06 WIL-71 782.47
2446895.633 309811.408 761.53048 0.03 WIL-71 782.47
2446895.633 309811.408 761.24184 -0.05 WIL-71 782.47
2446895.633 309811.408 760.94664 -0.06 WIL-71 782.47
2446895.633 309811.408 760.72032 -0.01 WIL-71 782.47
2446895.633 309811.408 760.43496 -0.03 WIL-71 782.47
2446895.633 309811.408 760.14304 -0.02 WIL-71 782.47
2446895.633 309811.408 759.85112 -0.01 WIL-71 782.47
2446895.633 309811.408 759.59528 -0.02 WIL-71 782.47
2446895.633 309811.408 759.30336 -0.03 WIL-71 782.47
2446895.633 309811.408 759.01472 0 WIL-71 782.47
2446895.633 309811.408 758.71952 -0.02 WIL-71 782.47
2446895.633 309811.408 758.42432 -0.02 WIL-71 782.47
2446895.633 309811.408 758.1324 -0.06 WIL-71 782.47
2446895.633 309811.408 757.84048 -0.04 WIL-71 782.47
2446895.633 309811.408 757.61416 0.07 WIL-71 782.47
```

```
2446895.633 309811.408 757.33208 -0.01 WIL-71 782.47
2446895.633 309811.408 757.10904 0.04 WIL-71 782.47
2446895.633 309811.408 756.81712 -0.01 WIL-71 782.47
2446895.633 309811.408 756.558 0 WIL-71 782.47
2446895.633 309811.408 756.33496 -0.01 WIL-71 782.47
2446895.633 309811.408 756.03976 -0.02 WIL-71 782.47
2446895.633 309811.408 755.78064 0.21 WIL-71 782.47
2446895.633 309811.408 755.5576 -0.05 WIL-71 782.47
2446895.633 309811.408 755.26568 -0.08 WIL-71 782.47
2446895.633 309811.408 755 -0.03 WIL-71 782.47
2446895.633 309811.408 754.70808 -0.06 WIL-71 782.47
2446895.633 309811.408 754.41288 -0.01 WIL-71 782.47
2446895.633 309811.408 754.12096 -0.03 WIL-71 782.47
2446895.633 309811.408 753.82576 0.08 WIL-71 782.47
2446895.633 309811.408 753.53384 0.01 WIL-71 782.47
2446895.633 309811.408 753.23536 -0.01 WIL-71 782.47
2446895.633 309811.408 752.93688 -0.03 WIL-71 782.47
2446895.633 309811.408 752.64168 -0.02 WIL-71 782.47
2446895.633 309811.408 752.376 -0.04 WIL-71 782.47
2446895.633 309811.408 752.0808 -0.04 WIL-71 782.47
2446895.633 309811.408 751.85776 -0.04 WIL-71 782.47
2446895.633 309811.408 751.556 -0.1 WIL-71 782.47
2446895.633 309811.408 751.29688 -0.01 WIL-71 782.47
2446895.633 309811.408 751.0148 -0.07 WIL-71 782.47
2446895.633 309811.408 750.71632 -0.07 WIL-71 782.47
2446895.633 309811.408 750.43752 0.01 WIL-71 782.47
2446895.633 309811.408 750.13904 0.05 WIL-71 782.47
2446895.633 309811.408 749.84056 0.01 WIL-71 782.47
2446895.633 309811.408 749.54536 0.02 WIL-71 782.47
2446895.633 309811.408 749.2436 -0.02 WIL-71 782.47
2446895.633 309811.408 748.98448 -0.01 WIL-71 782.47
2446895.633 309811.408 748.75816 0.08 WIL-71 782.47
2446895.633 309811.408 748.45968 -0.03 WIL-71 782.47
2446895.633 309811.408 748.19728 -0.01 WIL-71 782.47
2446895.633 309811.408 747.97096 -0.02 WIL-71 782.47
2446895.633 309811.408 747.70528 -0.01 WIL-71 782.47
2446895.633 309811.408 747.51504 0.05 WIL-71 782.47
2447048.321 309784.881 783.312 -0.16 WIL-72 783.312
2447048.321 309784.881 783.05616 1.2 WIL-72 783.312
2447048.321 309784.881 782.81016 0.62 WIL-72 783.312
2447048.321 309784.881 782.56416 0.19 WIL-72 783.312
2447048.321 309784.881 782.3116 0.29 WIL-72 783.312
2447048.321 309784.881 782.06232 0.17 WIL-72 783.312
2447048.321 309784.881 781.80648 0.19 WIL-72 783.312
2447048.321 309784.881 781.54736 0.26 WIL-72 783.312
2447048.321 309784.881 781.28824 0.32 WIL-72 783.312
2447048.321 309784.881 781.02912 0.21 WIL-72 783.312
2447048.321 309784.881 780.78968 0.12 WIL-72 783.312
2447048.321 309784.881 780.53384 0.15 WIL-72 783.312
2447048.321 309784.881 780.27144 0.14 WIL-72 783.312
2447048.321 309784.881 780.00248 0.18 WIL-72 783.312
2447048.321 309784.881 779.73352 0.74 WIL-72 783.312
2447048.321 309784.881 779.46784 0.75 WIL-72 783.312
2447048.321 309784.881 779.19888 0.76 WIL-72 783.312
2447048.321 309784.881 778.92664 0.65 WIL-72 783.312
2447048.321 309784.881 778.6872 0.58 WIL-72 783.312
2447048.321 309784.881 778.41824 0.52 WIL-72 783.312
2447048.321 309784.881 778.14272 0.41 WIL-72 783.312
2447048.321 309784.881 777.86392 0.54 WIL-72 783.312
2447048.321 309784.881 777.62448 0.48 WIL-72 783.312
2447048.321 309784.881 777.38176 0.66 WIL-72 783.312
2447048.321 309784.881 777.10296 0.69 WIL-72 783.312
2447048.321 309784.881 776.8176 0.73 WIL-72 783.312
2447048.321 309784.881 776.53224 0.79 WIL-72 783.312
2447048.321 309784.881 776.2436 0.83 WIL-72 783.312
2447048.321 309784.881 775.96152 0.72 WIL-72 783.312
2447048.321 309784.881 775.67616 0.92 WIL-72 783.312
2447048.321 309784.881 775.4236 0.83 WIL-72 783.312
2447048.321 309784.881 775.13496 0.88 WIL-72 783.312
2447048.321 309784.881 774.84632 0.85 WIL-72 783.312
2447048.321 309784.881 774.55112 1.45 WIL-72 783.312
2447048.321 309784.881 774.26248 0.71 WIL-72 783.312
2447048.321 309784.881 773.97056 0.92 WIL-72 783.312
2447048.321 309784.881 773.67864 1.3 WIL-72 783.312
2447048.321 309784.881 773.38672 0.93 WIL-72 783.312
2447048.321 309784.881 773.09152 2.09 WIL-72 783.312
2447048.321 309784.881 772.7996 1.35 WIL-72 783.312
2447048.321 309784.881 772.50112 1.29 WIL-72 783.312
2447048.321 309784.881 772.20592 1.1 WIL-72 783.312
2447048.321 309784.881 771.91072 0.85 WIL-72 783.312
2447048.321 309784.881 771.6516 0.76 WIL-72 783.312
2447048.321 309784.881 771.42856 0.61 WIL-72 783.312
2447048.321 309784.881 771.19896 0.72 WIL-72 783.312
2447048.321 309784.881 770.91032 1.04 WIL-72 783.312
2447048.321 309784.881 770.61184 0.82 WIL-72 783.312
2447048.321 309784.881 770.31336 0.73 WIL-72 783.312
2447048.321 309784.881 770.01488 0.67 WIL-72 783.312
2447048.321 309784.881 769.75248 0.92 WIL-72 783.312
2447048.321 309784.881 769.52616 0.97 WIL-72 783.312
2447048.321 309784.881 769.2244 0.77 WIL-72 783.312
2447048.321 309784.881 768.92264 0.43 WIL-72 783.312
2447048.321 309784.881 768.65696 0.6 WIL-72 783.312
2447048.321 309784.881 768.43392 0.58 WIL-72 783.312
2447048.321 309784.881 768.16824 0.74 WIL-72 783.312
2447048.321 309784.881 767.90912 0.65 WIL-72 783.312
2447048.321 309784.881 767.61392 0.43 WIL-72 783.312
2447048.321 309784.881 767.31544 0.65 WIL-72 783.312
2447048.321 309784.881 767.01368 0.46 WIL-72 783.312
2447048.321 309784.881 766.70864 0.3 WIL-72 783.312
2447048.321 309784.881 766.41016 0.83 WIL-72 783.312
2447048.321 309784.881 766.15104 0.67 WIL-72 783.312
2447048.321 309784.881 765.86896 0.69 WIL-72 783.312
```

```
2447048.321 309784.881 765.58688 0.27 WIL-72 783.312
2447048.321 309784.881 765.29824 -0.03 WIL-72 783.312
2447048.321 309784.881 765.0096 0.31 WIL-72 783.312
2447048.321 309784.881 764.78 0.3 WIL-72 783.312
2447048.321 309784.881 764.54384 0.69 WIL-72 783.312
2447048.321 309784.881 764.23224 0.5 WIL-72 783.312
2447048.321 309784.881 763.95672 0.28 WIL-72 783.312
2447048.321 309784.881 763.6484 0.46 WIL-72 783.312
2447048.321 309784.881 763.34992 0.83 WIL-72 783.312
2447048.321 309784.881 763.0908 0.22 WIL-72 783.312
2447048.321 309784.881 762.80216 0.07 WIL-72 783.312
2447048.321 309784.881 762.51352 0.21 WIL-72 783.312
2447048.321 309784.881 762.22816 0.79 WIL-72 783.312
2447048.321 309784.881 761.93952 0.26 WIL-72 783.312
2447048.321 309784.881 761.65088 0.37 WIL-72 783.312
2447048.321 309784.881 761.35896 0.23 WIL-72 783.312
2447048.321 309784.881 761.11296 0.65 WIL-72 783.312
2447048.321 309784.881 760.84728 0.51 WIL-72 783.312
2447048.321 309784.881 760.6144 0.26 WIL-72 783.312
2447048.321 309784.881 760.30936 0.22 WIL-72 783.312
2447048.321 309784.881 759.99448 0.16 WIL-72 783.312
2447048.321 309784.881 759.72224 0.23 WIL-72 783.312
2447048.321 309784.881 759.48936 -0.06 WIL-72 783.312
2447048.321 309784.881 759.21712 -0.27 WIL-72 783.312
2447048.321 309784.881 758.96128 -0.42 WIL-72 783.312
2447048.321 309784.881 758.7284 -0.42 WIL-72 783.312
2447048.321 309784.881 758.466 -0.66 WIL-72 783.312
2447048.321 309784.881 758.20032 -0.17 WIL-72 783.312
2447048.321 309784.881 757.96088 -0.1 WIL-72 783.312
2447048.321 309784.881 757.64272 0.09 WIL-72 783.312
2447048.321 309784.881 757.37704 0.45 WIL-72 783.312
2447048.321 309784.881 757.14088 0.47 WIL-72 783.312
2447048.321 309784.881 756.87848 0.06 WIL-72 783.312
2447048.321 309784.881 756.60624 0.06 WIL-72 783.312
2447048.321 309784.881 756.334 -0.12 WIL-72 783.312
2447048.321 309784.881 756.06176 0.19 WIL-72 783.312
2447048.321 309784.881 755.78624 -0.13 WIL-72 783.312
2447048.321 309784.881 755.514 0.33 WIL-72 783.312
2447048.321 309784.881 755.27456 0.49 WIL-72 783.312
2447048.321 309784.881 755.00232 0.02 WIL-72 783.312
2447048.321 309784.881 754.73664 0.35 WIL-72 783.312
2447048.321 309784.881 754.4644 0.47 WIL-72 783.312
2447048.321 309784.881 754.19216 0.39 WIL-72 783.312
2447048.321 309784.881 753.91664 0.49 WIL-72 783.312
2447048.321 309784.881 753.64112 0.29 WIL-72 783.312
2447048.321 309784.881 753.36232 -0.15 WIL-72 783.312
2447048.321 309784.881 753.09008 -0.08 WIL-72 783.312
2447048.321 309784.881 752.81128 0.44 WIL-72 783.312
2447048.321 309784.881 752.562 0.45 WIL-72 783.312
2447048.321 309784.881 752.28648 0.24 WIL-72 783.312
2447048.321 309784.881 752.01096 0.42 WIL-72 783.312
2447048.321 309784.881 751.72888 0.46 WIL-72 783.312
2447048.321 309784.881 751.59112 0.41 WIL-72 783.312
2447032.819 309742.185 781.883 0.5 WIL-73 781.883
2447032.819 309742.185 781.59436 20.03 WIL-73 781.883
2447032.819 309742.185 781.29916 1.2 WIL-73 781.883
2447032.819 309742.185 781.0302 0.99 WIL-73 781.883
2447032.819 309742.185 780.78092 0.54 WIL-73 781.883
2447032.819 309742.185 780.52508 0.94 WIL-73 781.883
2447032.819 309742.185 780.29876 0.87 WIL-73 781.883
2447032.819 309742.185 780.05604 1 WIL-73 781.883
2447032.819 309742.185 779.82316 0.62 WIL-73 781.883
2447032.819 309742.185 779.5214 1.02 WIL-73 781.883
2447032.819 309742.185 779.20652 0.68 WIL-73 781.883
2447032.819 309742.185 778.86868 0.57 WIL-73 781.883
2447032.819 309742.185 778.51772 0.51 WIL-73 781.883
2447032.819 309742.185 778.1766 0.81 WIL-73 781.883
2447032.819 309742.185 777.87156 0.68 WIL-73 781.883
2447032.819 309742.185 777.61572 0.82 WIL-73 781.883
2447032.819 309742.185 777.26476 0.63 WIL-73 781.883
2447032.819 309742.185 776.95644 0.81 WIL-73 781.883
2447032.819 309742.185 776.69404 0.73 WIL-73 781.883
2447032.819 309742.185 776.34636 0.97 WIL-73 781.883
2447032.819 309742.185 776.06756 1.15 WIL-73 781.883
2447032.819 309742.185 775.80844 2.11 WIL-73 781.883
2447032.819 309742.185 775.48044 5.34 WIL-73 781.883
2447032.819 309742.185 775.19836 8.37 WIL-73 781.883
2447032.819 309742.185 774.9458 5.03 WIL-73 781.883
2447032.819 309742.185 774.65716 4.57 WIL-73 781.883
2447032.819 309742.185 774.36524 5.8 WIL-73 781.883
2447032.819 309742.185 774.0766 5.32 WIL-73 781.883
2447032.819 309742.185 773.78468 3.02 WIL-73 781.883
2447032.819 309742.185 773.49604 2.7 WIL-73 781.883
2447032.819 309742.185 773.20412 1.6 WIL-73 781.883
2447032.819 309742.185 772.8958 1.24 WIL-73 781.883
2447032.819 309742.185 772.60388 0.92 WIL-73 781.883
2447032.819 309742.185 772.31852 0.85 WIL-73 781.883
2447032.819 309742.185 772.02332 1.77 WIL-73 781.883
2447032.819 309742.185 771.73468 0.88 WIL-73 781.883
2447032.819 309742.185 771.47884 1.57 WIL-73 781.883
2447032.819 309742.185 771.18692 1.48 WIL-73 781.883
2447032.819 309742.185 770.88844 0.86 WIL-73 781.883
2447032.819 309742.185 770.5998 0.89 WIL-73 781.883
2447032.819 309742.185 770.3046 0.88 WIL-73 781.883
2447032.819 309742.185 770.0094 0.51 WIL-73 781.883
2447032.819 309742.185 769.7142 0.67 WIL-73 781.883
2447032.819 309742.185 769.45836 0.97 WIL-73 781.883
2447032.819 309742.185 769.23532 0.61 WIL-73 781.883
2447032.819 309742.185 768.94012 0.6 WIL-73 781.883
2447032.819 309742.185 768.6482 0.45 WIL-73 781.883
2447032.819 309742.185 768.38908 0.61 WIL-73 781.883
2447032.819 309742.185 768.16604 0.66 WIL-73 781.883
```

```
2447032.819 309742.185 767.90692 0.47 WIL-73 781.883
2447032.819 309742.185 767.68388 3.82 WIL-73 781.883
2447032.819 309742.185 767.38868 0.7 WIL-73 781.883
2447032.819 309742.185 767.0902 0.59 WIL-73 781.883
2447032.819 309742.185 766.78844 0.68 WIL-73 781.883
2447032.819 309742.185 766.46044 0.15 WIL-73 781.883
2447032.819 309742.185 766.16524 0.23 WIL-73 781.883
2447032.819 309742.185 765.87004 0.89 WIL-73 781.883
2447032.819 309742.185 765.57156 0.62 WIL-73 781.883
2447032.819 309742.185 765.27308 4.05 WIL-73 781.883
2447032.819 309742.185 765.04676 6.22 WIL-73 781.883
2447032.819 309742.185 764.74828 0.9 WIL-73 781.883
2447032.819 309742.185 764.4498 2.42 WIL-73 781.883
2447032.819 309742.185 764.14148 0.38 WIL-73 781.883
2447032.819 309742.185 763.843 0.5 WIL-73 781.883
2447032.819 309742.185 763.5478 3.17 WIL-73 781.883
2447032.819 309742.185 763.29196 1.53 WIL-73 781.883
2447032.819 309742.185 763.00988 0.99 WIL-73 781.883
2447032.819 309742.185 762.7278 1.68 WIL-73 781.883
2447032.819 309742.185 762.43588 1.48 WIL-73 781.883
2447032.819 309742.185 762.14396 0.98 WIL-73 781.883
2447032.819 309742.185 761.85204 0.71 WIL-73 781.883
2447032.819 309742.185 761.56012 0.71 WIL-73 781.883
2447032.819 309742.185 761.2682 0.51 WIL-73 781.883
2447032.819 309742.185 761.01236 0.51 WIL-73 781.883
2447032.819 309742.185 760.78932 0.57 WIL-73 781.883
2447032.819 309742.185 760.53676 0.63 WIL-73 781.883
2447032.819 309742.185 760.24484 0.56 WIL-73 781.883
2447032.819 309742.185 759.97588 0.68 WIL-73 781.883
2447032.819 309742.185 759.68396 0.49 WIL-73 781.883
2447032.819 309742.185 759.40516 0.56 WIL-73 781.883
2447032.819 309742.185 759.12964 0.43 WIL-73 781.883
2447032.819 309742.185 758.85412 0.51 WIL-73 781.883
2447032.819 309742.185 758.6114 0.62 WIL-73 781.883
2447032.819 309742.185 758.3326 0.93 WIL-73 781.883
2447032.819 309742.185 758.05708 0.91 WIL-73 781.883
2447032.819 309742.185 757.77172 0.9 WIL-73 781.883
2447032.819 309742.185 757.49292 0.69 WIL-73 781.883
2447032.819 309742.185 757.21412 0.61 WIL-73 781.883
2447032.819 309742.185 756.99108 0.54 WIL-73 781.883
2447032.819 309742.185 756.96812 0.78 WIL-73 781.883
2447694.944 310004.18 786.365 0.17 WIL-P1-01 786.365
2447694.944 310004.18 786.05996 1.63 WIL-P1-01 786.365
2447694.944 310004.18 785.83364 0.85 WIL-P1-01 786.365
2447694.944 310004.18 785.53516 0.8 WIL-P1-01 786.365
2447694.944 310004.18 785.27276 0.34 WIL-P1-01 786.365
2447694.944 310004.18 785.04972 0.34 WIL-P1-01 786.365
2447694.944 310004.18 784.7578 0.41 WIL-P1-01 786.365
2447694.944 310004.18 784.49868 0.1 WIL-P1-01 786.365
2447694.944 310004.18 784.22316 0.19 WIL-P1-01 786.365
2447694.944 310004.18 783.905 -0.01 WIL-P1-01 786.365
2447694.944 310004.18 783.56388 0.13 WIL-P1-01 786.365
2447694.944 310004.18 783.33756 0.04 WIL-P1-01 786.365
2447694.944 310004.18 783.11452 0.18 WIL-P1-01 786.365
2447694.944 310004.18 782.86852 0.21 WIL-P1-01 786.365
2447694.944 310004.18 782.63892 0.26 WIL-P1-01 786.365
2447694.944 310004.18 782.347 0.24 WIL-P1-01 786.365
2447694.944 310004.18 782.08132 0.19 WIL-P1-01 786.365
2447694.944 310004.18 781.81892 0.17 WIL-P1-01 786.365
2447694.944 310004.18 781.58932 0.2 WIL-P1-01 786.365
2447694.944 310004.18 781.3302 0.16 WIL-P1-01 786.365
2447694.944 310004.18 781.1006 0.08 WIL-P1-01 786.365
2447694.944 310004.18 780.86772 0.21 WIL-P1-01 786.365
2447694.944 310004.18 780.60204 0.22 WIL-P1-01 786.365
2447694.944 310004.18 780.31012 0.18 WIL-P1-01 786.365
2447694.944 310004.18 780.06084 0.06 WIL-P1-01 786.365
2447694.944 310004.18 779.78204 0.21 WIL-P1-01 786.365
2447694.944 310004.18 779.55244 0.17 WIL-P1-01 786.365
2447694.944 310004.18 779.32284 0.15 WIL-P1-01 786.365
2447694.944 310004.18 779.09652 0.1 WIL-P1-01 786.365
2447694.944 310004.18 778.7882 0.24 WIL-P1-01 786.365
2447694.944 310004.18 778.53892 0.24 WIL-P1-01 786.365
2447694.944 310004.18 778.30932 0.23 WIL-P1-01 786.365
2447694.944 310004.18 778.07972 0.33 WIL-P1-01 786.365
2447694.944 310004.18 777.84356 0.27 WIL-P1-01 786.365
2447694.944 310004.18 777.56476 0.19 WIL-P1-01 786.365
2447694.944 310004.18 777.2958 0.16 WIL-P1-01 786.365
2447694.944 310004.18 777.0006 0.13 WIL-P1-01 786.365
2447694.944 310004.18 776.69556 0.18 WIL-P1-01 786.365
2447694.944 310004.18 776.3938 0.23 WIL-P1-01 786.365
2447694.944 310004.18 776.12156 0.15 WIL-P1-01 786.365
2447694.944 310004.18 775.869 0.25 WIL-P1-01 786.365
2447694.944 310004.18 775.62628 0.31 WIL-P1-01 786.365
2447694.944 310004.18 775.38356 0.28 WIL-P1-01 786.365
2447694.944 310004.18 775.14412 0.3 WIL-P1-01 786.365
2447694.944 310004.18 774.91124 0.37 WIL-P1-01 786.365
2447694.944 310004.18 774.6718 0.19 WIL-P1-01 786.365
2447694.944 310004.18 774.43892 0.4 WIL-P1-01 786.365
2447694.944 310004.18 774.30444 0.49 WIL-P1-01 786.365
2447570.28 309966.71 788.972 0.64 WIL-P1-02 788.972
2447570.28 309966.71 788.72272 0.78 WIL-P1-02 788.972
2447570.28 309966.71 788.4636 0.67 WIL-P1-02 788.972
2447570.28 309966.71 788.23072 0.58 WIL-P1-02 788.972
2447570.28 309966.71 787.99784 0.57 WIL-P1-02 788.972
2447570.28 309966.71 787.76496 0.48 WIL-P1-02 788.972
2447570.28 309966.71 787.53208 0.47 WIL-P1-02 788.972
2447570.28 309966.71 787.30248 0.5 WIL-P1-02 788.972
2447570.28 309966.71 787.07944 0.54 WIL-P1-02 788.972
2447570.28 309966.71 786.9548 0.44 WIL-P1-02 788.972
2447723.791 309866.774 784 0.57 WIL-P2-01 784
2447723.791 309866.774 783.75072 0.85 WIL-P2-01 784
2447723.791 309866.774 783.51784 0.95 WIL-P2-01 784
```

```
2447723.791 309866.774 783.28168 0.67 WIL-P2-01 784
2447723.791 309866.774 783.04224 0.78 WIL-P2-01 784
2447723.791 309866.774 782.79952 0.58 WIL-P2-01 784
2447723.791 309866.774 782.56008 0.49 WIL-P2-01 784
2447723.791 309866.774 782.32392 0.5 WIL-P2-01 784
2447723.791 309866.774 782.10088 0.41 WIL-P2-01 784
2447723.791 309866.774 781.87128 0.67 WIL-P2-01 784
2447723.791 309866.774 781.59248 0.52 WIL-P2-01 784
2447723.791 309866.774 781.3432 0.55 WIL-P2-01 784
2447723.791 309866.774 781.09064 0.65 WIL-P2-01 784
2447723.791 309866.774 780.8348 0.48 WIL-P2-01 784
2447723.791 309866.774 780.58224 0.62 WIL-P2-01 784
2447723.791 309866.774 780.32312 0.66 WIL-P2-01 784
2447723.791 309866.774 780.07056 0.48 WIL-P2-01 784
2447723.791 309866.774 779.84752 0.43 WIL-P2-01 784
2447723.791 309866.774 779.67368 0.57 WIL-P2-01 784
2447663.423 309856.006 783.25 1.26 WIL-P2-02 783.25
2447663.423 309856.006 782.94496 0.82 WIL-P2-02 783.25
2447663.423 309856.006 782.71864 0.61 WIL-P2-02 783.25
2447663.423 309856.006 782.49232 2.28 WIL-P2-02 783.25
2447663.423 309856.006 782.266 0.81 WIL-P2-02 783.25
2447663.423 309856.006 782.04296 0.77 WIL-P2-02 783.25
2447663.423 309856.006 781.7904 0.62 WIL-P2-02 783.25
2447663.423 309856.006 781.51488 0.76 WIL-P2-02 783.25
2447663.423 309856.006 781.23936 0.55 WIL-P2-02 783.25
2447663.423 309856.006 780.95728 0.47 WIL-P2-02 783.25
2447663.423 309856.006 780.6588 0.51 WIL-P2-02 783.25
2447663.423 309856.006 780.3636 0.46 WIL-P2-02 783.25
2447663.423 309856.006 780.09136 0.64 WIL-P2-02 783.25
2447663.423 309856.006 779.84864 0.41 WIL-P2-02 783.25
2447663.423 309856.006 779.5764 0.5 WIL-P2-02 783.25
2447663.423 309856.006 779.3304 0.46 WIL-P2-02 783.25
2447663.423 309856.006 779.05816 0.3 WIL-P2-02 783.25
2447663.423 309856.006 778.81216 0.5 WIL-P2-02 783.25
2447663.423 309856.006 778.5104 0.45 WIL-P2-02 783.25
2447663.423 309856.006 778.2316 0.46 WIL-P2-02 783.25
2447663.423 309856.006 777.94296 0.44 WIL-P2-02 783.25
2447663.423 309856.006 777.64448 0.52 WIL-P2-02 783.25
2447663.423 309856.006 777.34272 0.6 WIL-P2-02 783.25
2447663.423 309856.006 777.04424 0.6 WIL-P2-02 783.25
2447663.423 309856.006 776.86056 0.66 WIL-P2-02 783.25
2447569.846 309832.846 786.896 0.89 WIL-P2-03 786.896
2447569.846 309832.846 786.59096 0.61 WIL-P2-03 786.896
2447569.846 309832.846 786.36136 -1.8 WIL-P2-03 786.896
2447569.846 309832.846 786.1252 -1.01 WIL-P2-03 786.896
2447569.846 309832.846 785.8792 -1.18 WIL-P2-03 786.896
2447569.846 309832.846 785.62992 -1.51 WIL-P2-03 786.896
2447569.846 309832.846 785.31832 -1.15 WIL-P2-03 786.896
2447569.846 309832.846 785.0592 0.18 WIL-P2-03 786.896
2447569.846 309832.846 784.79352 -0.08 WIL-P2-03 786.896
2447569.846 309832.846 784.49504 0.36 WIL-P2-03 786.896
2447569.846 309832.846 784.20312 0.8 WIL-P2-03 786.896
2447569.846 309832.846 783.95384 0.04 WIL-P2-03 786.896
2447569.846 309832.846 783.6816 0.07 WIL-P2-03 786.896
2447569.846 309832.846 783.41264 -0.31 WIL-P2-03 786.896
2447569.846 309832.846 783.13712 0.14 WIL-P2-03 786.896
2447569.846 309832.846 782.8616 0.57 WIL-P2-03 786.896
2447569.846 309832.846 782.62216 0.35 WIL-P2-03 786.896
2447569.846 309832.846 782.34664 0.02 WIL-P2-03 786.896
2447569.846 309832.846 782.07112 -0.29 WIL-P2-03 786.896
2447569.846 309832.846 781.81856 0.2 WIL-P2-03 786.896
2447569.846 309832.846 781.54304 -0.06 WIL-P2-03 786.896
2447569.846 309832.846 781.2708 0.47 WIL-P2-03 786.896
2447569.846 309832.846 780.98544 0.65 WIL-P2-03 786.896
2447569.846 309832.846 780.70664 0.18 WIL-P2-03 786.896
2447569.846 309832.846 780.42128 0.35 WIL-P2-03 786.896
2447569.846 309832.846 780.13592 -0.6 WIL-P2-03 786.896
2447569.846 309832.846 779.844 0.11 WIL-P2-03 786.896
2447569.846 309832.846 779.55864 -1.78 WIL-P2-03 786.896
2447569.846 309832.846 779.27 -1.09 WIL-P2-03 786.896
2447569.846 309832.846 778.97808 -1.21 WIL-P2-03 786.896
2447569.846 309832.846 778.75176 -1.52 WIL-P2-03 786.896
2447569.846 309832.846 778.4828 -2.57 WIL-P2-03 786.896
2447569.846 309832.846 778.204 -0.1 WIL-P2-03 786.896
2447569.846 309832.846 777.92192 0.18 WIL-P2-03 786.896
2447569.846 309832.846 777.63984 0.05 WIL-P2-03 786.896
2447569.846 309832.846 777.39712 0.08 WIL-P2-03 786.896
2447569.846 309832.846 777.11176 0.64 WIL-P2-03 786.896
2447569.846 309832.846 776.82968 0.4 WIL-P2-03 786.896
2447569.846 309832.846 776.55088 0.65 WIL-P2-03 786.896
2447569.846 309832.846 776.31144 -2.36 WIL-P2-03 786.896
2447569.846 309832.846 776.26552 0.04 WIL-P2-03 786.896
2447611.566 309770.482 786.133 1.1 WIL-P2-04 786.133
2447611.566 309770.482 785.90012 1.27 WIL-P2-04 786.133
2447611.566 309770.482 785.62788 1.34 WIL-P2-04 786.133
2447611.566 309770.482 785.34252 1.32 WIL-P2-04 786.133
2447611.566 309770.482 785.07356 1.39 WIL-P2-04 786.133
2447611.566 309770.482 784.85052 1.41 WIL-P2-04 786.133
2447611.566 309770.482 784.58484 1.37 WIL-P2-04 786.133
2447611.566 309770.482 784.30932 1.39 WIL-P2-04 786.133
2447611.566 309770.482 784.0502 1.49 WIL-P2-04 786.133
2447611.566 309770.482 783.77796 1.49 WIL-P2-04 786.133
2447611.566 309770.482 783.50572 1.46 WIL-P2-04 786.133
2447611.566 309770.482 783.2302 1.42 WIL-P2-04 786.133
2447611.566 309770.482 782.9842 1.43 WIL-P2-04 786.133
2447611.566 309770.482 782.7054 1.27 WIL-P2-04 786.133
2447611.566 309770.482 782.41676 1.37 WIL-P2-04 786.133
2447611.566 309770.482 782.19372 1.4 WIL-P2-04 786.133
2447611.566 309770.482 781.9346 1.37 WIL-P2-04 786.133
2447611.566 309770.482 781.71156 1.41 WIL-P2-04 786.133
2447611.566 309770.482 781.41636 1.33 WIL-P2-04 786.133
2447611.566 309770.482 781.11788 1.4 WIL-P2-04 786.133
```

```
2447611.566 309770.482 780.87188 1.3 WIL-P2-04 786.133
2447611.566 309770.482 780.61932 1.3 WIL-P2-04 786.133
2447611.566 309770.482 780.34708 1.28 WIL-P2-04 786.133
2447611.566 309770.482 780.04532 1.3 WIL-P2-04 786.133
2447611.566 309770.482 779.75668 1.24 WIL-P2-04 786.133
2447611.566 309770.482 779.50412 1.38 WIL-P2-04 786.133
2447611.566 309770.482 779.2778 1.35 WIL-P2-04 786.133
2447611.566 309770.482 778.9826 1.42 WIL-P2-04 786.133
2447611.566 309770.482 778.71692 1.47 WIL-P2-04 786.133
2447611.566 309770.482 778.48404 1.48 WIL-P2-04 786.133
2447611.566 309770.482 778.19212 1.7 WIL-P2-04 786.133
2447611.566 309770.482 777.96252 1.56 WIL-P2-04 786.133
2447611.566 309770.482 777.71652 1.53 WIL-P2-04 786.133
2447611.566 309770.482 777.44756 1.56 WIL-P2-04 786.133
2447611.566 309770.482 777.20484 1.12 WIL-P2-04 786.133
2447611.566 309770.482 776.90308 1.81 WIL-P2-04 786.133
2447611.566 309770.482 776.5882 1.14 WIL-P2-04 786.133
2447611.566 309770.482 776.31596 1.99 WIL-P2-04 786.133
2447611.566 309770.482 776.08636 1.42 WIL-P2-04 786.133
2447611.566 309770.482 775.9322 1.72 WIL-P2-04 786.133
```

```
Easting Northing Depth @@Pb Boring  Top
Depth ft
280 1 mg/kg
2447275.97  309771.133  0.08    2383.59 AA-GW-03    781.599
2447275.97  309771.133  0.5 1436.56 AA-GW-03    781.599
2447275.97  309771.133  1   5646.35 AA-GW-03    781.599
2447275.97  309771.133  1.5 93.81   AA-GW-03    781.599
2447275.97  309771.133  2   43.44   AA-GW-03    781.599
2447275.97  309771.133  7.5 28.2    AA-GW-03    781.599
2447275.97  309771.133  11.5    39.36   AA-GW-03    781.599
2447242.734 309664.642  0   191.28  CR-XRF-100  775.112
2447241.433 309657.966  0   225.82  CR-XRF-101  772.195
2447426.006 309769.691  0   267 CR-XRF-102  772.787
2447426.287 309758.987  0   27  CR-XRF-103  775.763
2447384.338 309782.234  0   39.47   CR-XRF-104  772.257
2447377.507 309782.08   0   518.78  CR-XRF-105  774.897
2447372.155 309785.623  0   364.33  CR-XRF-106  777.368
2447391.084 309737.219  0   87.42   CR-XRF-107  771.72
2447397.876 309718.402  0   115.82  CR-XRF-108  773.284
2446815.77  310830.037  2   13.46   LOR-06  802.995
2446815.77  310830.037  7   19.11   LOR-06  802.995
2446815.77  310830.037  8   9.67    LOR-06  802.995
2446815.77  310830.037  9   8.84    LOR-06  802.995
2446815.77  310830.037  12  10.84   LOR-06  802.995
2446815.77  310830.037  14  5.38    LOR-06  802.995
2446727.28  310572.316  1   21.78   LOR-09  803.347
2446727.28  310572.316  2   24.52   LOR-09  803.347
2446727.28  310572.316  7   32.39   LOR-09  803.347
2446727.28  310572.316  9   3.61    LOR-09  803.347
2446727.28  310572.316  11.5    18.47   LOR-09  803.347
2446751.448 310762.021  1   59.32   LOR-12  801.59
2446751.448 310762.021  2   10.99   LOR-12  801.59
2446751.448 310762.021  3   19.94   LOR-12  801.59
2446751.448 310762.021  6   5.61    LOR-12  801.59
2446751.448 310762.021  7   22.16   LOR-12  801.59
2446751.448 310762.021  8   16.67   LOR-12  801.59
2446751.448 310762.021  11  23.02   LOR-12  801.59
2446751.448 310762.021  12.5    4.67    LOR-12  801.59
2446751.448 310762.021  14  16.45   LOR-12  801.59
2446751.448 310762.021  16.5    10.91   LOR-12  801.59
2446751.448 310762.021  18  14.14   LOR-12  801.59
2446751.448 310762.021  19  29.46   LOR-12  801.59
2446751.448 310762.021  24.5    5.21    LOR-12  801.59
#2446565.676    310779.459  0.08    49965.66    LOR-18  792.882 # Removed due to boundary conditions
#2446565.676    310779.459  0.5 1697.22 LOR-18  792.882 # Removed due to boundary conditions
#2446565.676    310779.459  1   42.65   LOR-18  792.882 # Removed due to boundary conditions
#2446565.676    310779.459  2.5 14.32   LOR-18  792.882 # Removed due to boundary conditions
#2446565.676    310779.459  6   22.56   LOR-18  792.882 # Removed due to boundary conditions
#2446565.676    310779.459  11.5    17.46   LOR-18  792.882 # Removed due to boundary conditions
#2446646.415    310337.741  0.08    3593.11 LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  0.5 167.04  LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  1   523.96  LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  1.5 15.32   LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  2   16.57   LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  3   15.26   LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  7.5 19.07   LOR-25A 787.929 # Removed due to boundary conditions
#2446646.415    310337.741  12  17.46   LOR-25A 787.929 # Removed due to boundary conditions
2448789.248 310252.764  1   33.44   P-04-01 827.035
2448789.248 310252.764  2.5 10.25   P-04-01 827.035
2448789.248 310252.764  3.5 13.05   P-04-01 827.035
2448845.486 310144.575  0.75    17.23   P-04-04 826.516
2448963.474 310150.425  0.75    11.02   P-04-05 826.997
2449024.983 310175.384  1   12.76   P-04-06 828.956
2449024.983 310175.384  2   13.93   P-04-06 828.956
2447964.226 309561.007  0   37.78   P3-XRF-01   771.282
2447941.291 309556.788  0   20.37   P3-XRF-02   777.42
2447936.971 309548.375  0   23.6    P3-XRF-03   773.803
2447938.31  309544.491  0   25.36   P3-XRF-04   779.281
2447941.698 309527.55   0   10.54   P3-XRF-05   777.387
2447968.853 309515.641  0   22.21   P3-XRF-06   778.315
2447879.086 309563.677  0   19.26   P3-XRF-07   775.758
2447851.372 309527.709  0   16.4    P3-XRF-08   779.776
2447841.45  309511.338  0   40.68   P3-XRF-09   778.801
2448844.144 310638.549  0.5 18.38   TF-06-01    832.117
2448793.611 310632.835  1   79.32   TF-06-02    827.347
2448793.611 310632.835  1.5 49.94   TF-06-02    827.347
2448793.611 310632.835  2   35.54   TF-06-02    827.347
2448803.548 310606.669  0.5 15.35   TF-06-03    831.895
2448803.548 310606.669  1   12.41   TF-06-03    831.895
2448803.548 310606.669  2   16.93   TF-06-03    831.895
2448869.538 310585.44   1   0.16    TF-06-04    832.7
2448869.538 310585.44   2   30.49   TF-06-04    832.7
2448778.715 310569.445  1   15.39   TF-06-05    831.771
2448778.715 310569.445  2.5 11.97   TF-06-05    831.771
2448778.715 310569.445  4   4.8 TF-06-05    831.771
2448778.715 310569.445  5.5 24.55   TF-06-05    831.771
2448738.095 310561.598  1   45.88   TF-06-06    829.662
2448738.095 310561.598  2   92.34   TF-06-06    829.662
2448779.633 310518.325  1   16.66   TF-06-07    830.879
2448698.835 310566.712  1   22.43   TF-06-08    828.321
2448698.835 310566.712  2   12.46   TF-06-08    828.321
2448698.835 310566.712  3   17.98   TF-06-08    828.321
2448698.835 310566.712  5.25    33.63   TF-06-08    828.321
2448712.801 310516.276  1   11.55   TF-06-09    827.951
2448712.801 310516.276  1.5 7.03    TF-06-09    827.951
2448712.801 310516.276  5.5 15.44   TF-06-09    827.951
2448712.801 310516.276  6.5 22.28   TF-06-09    827.951
2448712.801 310516.276  8   14.13   TF-06-09    827.951
2448761.882 310481.101  1   14.46   TF-06-10    827
2448761.882 310481.101  2   13.2    TF-06-10    827
2448761.882 310481.101  3   14.71   TF-06-10    827
2449187.01  310119.442  1   20.105  TF-08-01    827.119
```

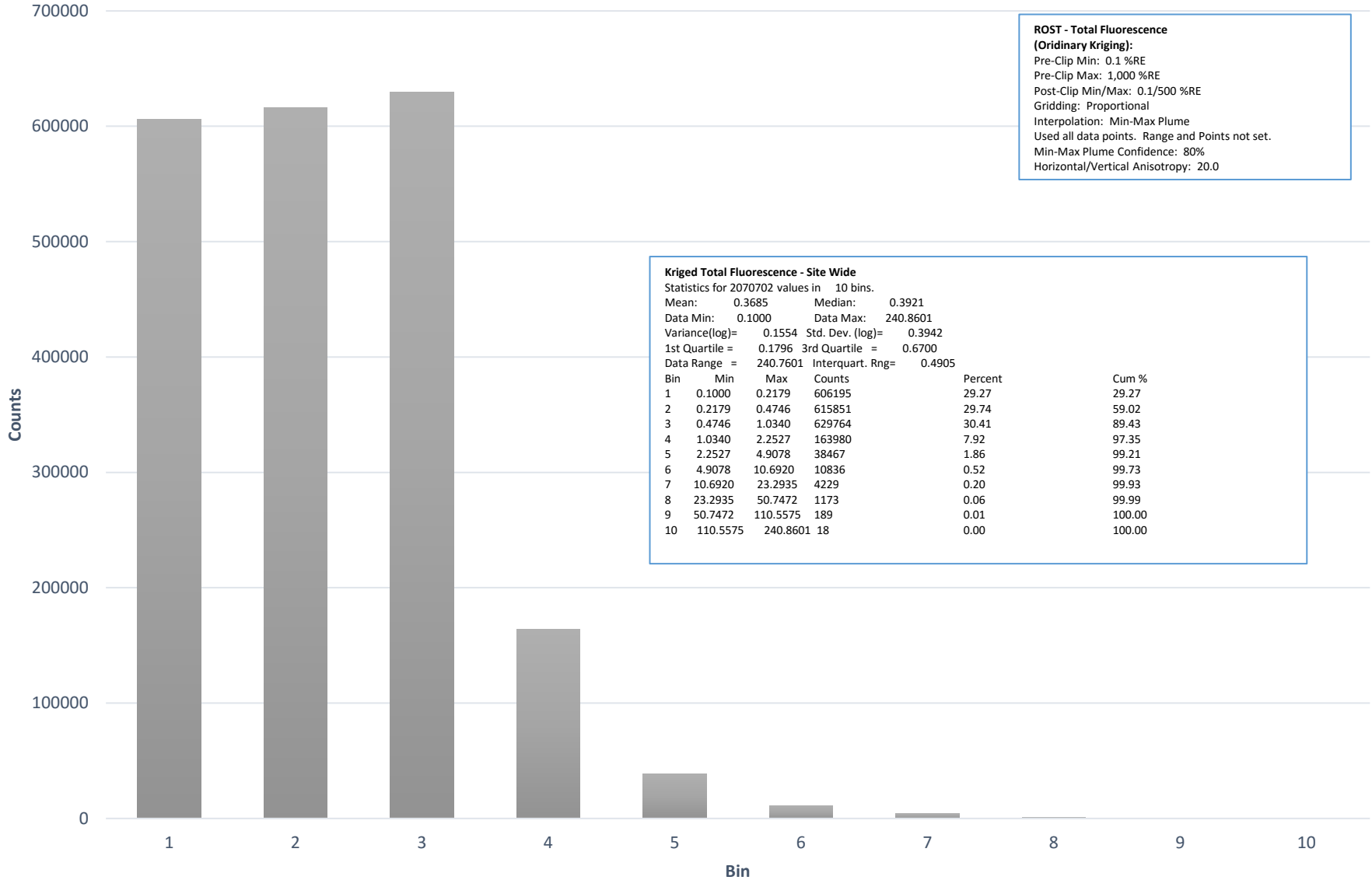
2449187.01	310119.442	2	31.103	TF-08-01	827.119
2449187.01	310119.442	3	1.739	TF-08-01	827.119
2449174.529	310050.864	1.5	10.823	TF-08-02	826.294
2449174.529	310050.864	3	15.13	TF-08-02	826.294
2449174.529	310050.864	4	11.222	TF-08-02	826.294
2449174.529	310050.864	6	15.093	TF-08-02	826.294
2449174.529	310050.864	7	27.882	TF-08-02	826.294
2449207.361	310080.222	1.5	22.836	TF-08-03	826.134
2449251.862	310113.896	1	15.605	TF-08-04	827.386
2449251.862	310113.896	2	15.344	TF-08-04	827.386
2449251.862	310113.896	3	6.769	TF-08-04	827.386
2449233.435	310046.093	1.5	22.734	TF-08-05	826.242
2449233.435	310046.093	3	28.032	TF-08-05	826.242
2449233.435	310046.093	4	2.966	TF-08-05	826.242
2449233.435	310046.093	6	19.519	TF-08-05	826.242
2449233.435	310046.093	7.5	14.88	TF-08-05	826.242
2449233.435	310046.093	9.5	34.667	TF-08-05	826.242
2449233.435	310046.093	11	35.001	TF-08-05	826.242
2449233.435	310046.093	12.5	21.271	TF-08-05	826.242
2449225.707	310011.097	1	90.646	TF-08-06	825.23
2449225.707	310011.097	2.5	27.3	TF-08-06	825.23
2449225.707	310011.097	3.5	17.342	TF-08-06	825.23
2449273.222	310036.08	1	17.98	TF-08-07	826.363
2449273.222	310036.08	2.5	18.47	TF-08-07	826.363
2449273.222	310036.08	6	19.04	TF-08-07	826.363
2449273.222	310036.08	7.5	20.2	TF-08-07	826.363
2449273.222	310036.08	9	23.81	TF-08-07	826.363
2449273.222	310036.08	11	10.25	TF-08-07	826.363
2449273.222	310036.08	12.5	23.08	TF-08-07	826.363
2449229.821	309964.828	1	16.114	TF-08-08	823.978
2449229.821	309964.828	2	17.38	TF-08-08	823.978
2449229.821	309964.828	3	9.783	TF-08-08	823.978
2449229.821	309964.828	6	17.455	TF-08-08	823.978
2449229.821	309964.828	7.5	23.683	TF-08-08	823.978
2449229.821	309964.828	9	29.473	TF-08-08	823.978
2449229.821	309964.828	12	7.184	TF-08-08	823.978
2449272.031	309995.311	1	8.14	TF-08-09	825.291
2449272.031	309995.311	2.5	20.66	TF-08-09	825.291
2449272.031	309995.311	4	19.15	TF-08-09	825.291
2449272.031	309995.311	6	15.07	TF-08-09	825.291
2449272.031	309995.311	7.5	21.03	TF-08-09	825.291
2449272.031	309995.311	9	14.95	TF-08-09	825.291
2449272.031	309995.311	12.5	29.57	TF-08-09	825.291
2449312.543	310039.142	1	12.67	TF-08-10	826.02
2449312.543	310039.142	2.5	12.44	TF-08-10	826.02
2449312.543	310039.142	6	11.46	TF-08-10	826.02
2449312.543	310039.142	7.5	6.22	TF-08-10	826.02
2449312.543	310039.142	9	8.72	TF-08-10	826.02
2449312.543	310039.142	12.5	9.9	TF-08-10	826.02
2447731.22	310194.651	5	13.68	TF-11-03	788.576
2447742.68	310149.458	8	16.37	TF-11-05	789.095
2447654.54	309609.122	7	9.45	TF-12-01	781.505
2447612.927	309534.511	8	12.34	TF-12-05	782.424
2447594.94	309515.641	7	12.55	TF-12-06	783.726
2447250.76	309719.591	1	7110.04	TF-34-01	779.915
2447250.76	309719.591	1.5	1734.91	TF-34-01	779.915
2447250.76	309719.591	2	85.36	TF-34-01	779.915
2447250.76	309719.591	3	16.08	TF-34-01	779.915
2447250.76	309719.591	5.5	8428.65	TF-34-01	779.915
2447250.76	309719.591	8	9653.52	TF-34-01	779.915
2447250.76	309719.591	9.25	38.32	TF-34-01	779.915
2447250.76	309719.591	11	845.08	TF-34-01	779.915
2447250.76	309719.591	12.5	94.62	TF-34-01	779.915
2447250.76	309719.591	14	27.19	TF-34-01	779.915
2447250.76	309719.591	17.5	73.83	TF-34-01	779.915
2447138.389	310453.977	15	12.9	WIL-05	796.078
2446869.481	310045.617	7	10.46	WIL-14	783.673
2447151.884	310048.513	7	50.35	WIL-20	787.501
2447025.36	310363.235	10	10.75	WIL-25	793.68
2447375.689	310409.04	8	45.15	WIL-29	794.521
2447418.825	310543.052	5	29.18	WIL-30	798.704
2447513.562	310278.396	7	12.43	WIL-35	793.355
2447638.611	310510.047	6	34.15	WIL-41	792.258
2447250.354	309896.073	0.5	543.58	WIL-AA-01	783.302
2447250.354	309896.073	1.5	57.58	WIL-AA-01	783.302
2447250.354	309896.073	3.5	46.58	WIL-AA-01	783.302
2447250.354	309896.073	7	27.58	WIL-AA-01	783.302
2447250.354	309896.073	8.5	16.94	WIL-AA-01	783.302
2447250.354	309896.073	11.5	9.81	WIL-AA-01	783.302
2447250.354	309896.073	13	14.75	WIL-AA-01	783.302
2447220.042	310007.022	0.08	100223.17	WIL-AA-10	786.28
2447220.042	310007.022	0.5	86491.11	WIL-AA-10	786.28
2447220.042	310007.022	1	107908.41	WIL-AA-10	786.28
2447220.042	310007.022	1.5	379.24	WIL-AA-10	786.28
2447220.042	310007.022	2	929.09	WIL-AA-10	786.28
2447220.042	310007.022	3	1073.1	WIL-AA-10	786.28
2447220.042	310007.022	4	609.6	WIL-AA-10	786.28
2447220.042	310007.022	8	25.05	WIL-AA-10	786.28
2447243.223	309908.476	0.08	1139782.38	WIL-AA-11	783.461
2447243.223	309908.476	0.5	39835.2	WIL-AA-11	783.461
2447243.223	309908.476	1	5513.22	WIL-AA-11	783.461
2447243.223	309908.476	1.5	63.59	WIL-AA-11	783.461
2447243.223	309908.476	2	39.61	WIL-AA-11	783.461
2447243.223	309908.476	7.5	183.66	WIL-AA-11	783.461
2447243.223	309908.476	12	29.78	WIL-AA-11	783.461
2447237.982	309909.608	0	10430089	WIL-XRF-01	783.585
2447241.014	309903.76	0	435877.88	WIL-XRF-02	783.508
2447241.014	309903.76	0	45694.09	WIL-XRF-02	783.508
2447241.014	309903.76	0.03	40567.49	WIL-XRF-02	783.508
2447241.014	309903.76	0.17	397565.25	WIL-XRF-02	783.508
2447241.014	309903.76	0.5	41243.05	WIL-XRF-02	783.508
2447241.014	309903.76	1	5785.1	WIL-XRF-02	783.508

```
2447249.531 309889.107  0   44926.16    WIL-XRF-03  783.08
2447257.048 309867.225  0   45834.73    WIL-XRF-04  782.586
2447265.995 309854.528  0   34473.79    WIL-XRF-05  782.26
2447277.548 309852.315  0   53663.27    WIL-XRF-06  782.3
2447277.548 309852.315  0   31641.87    WIL-XRF-06  782.3
2447277.548 309852.315  0.03    2355.77 WIL-XRF-06  782.3
2447277.548 309852.315  0.17    78.26   WIL-XRF-06  782.3
2447271.765 309868.468  0   34515.78    WIL-XRF-07  782.225
2447268.284 309890.937  0   12389.84    WIL-XRF-08  782.699
2447259.714 309908.599  0   12690.85    WIL-XRF-09  784.002
2447278.809 309903.418  0   23516.53    WIL-XRF-10  782.481
2447285.362 309892.172  0   120406.01   WIL-XRF-11  782.217
2447289.455 309868.042  0   495334.69   WIL-XRF-12  782.569
2447296.217 309844.836  0   65965.95    WIL-XRF-13  781.97
2447315.836 309843.704  0   57076.14    WIL-XRF-14  782.044
2447327.64  309880.577  0   99243.8 WIL-XRF-15  782.317
2447301.539 309891.534  0   26280.64    WIL-XRF-16  782.831
2447302.711 309865.198  0   9419.71 WIL-XRF-17  782.122
2447275.655 309769.542  0   626.45  WIL-XRF-18  781.587
2447271.622 309784.726  0   277.36  WIL-XRF-19  781.641
2447254.234 309781.378  0   1341.45 WIL-XRF-20  781.875
2447027.378 310388.285  0   328.89  WIL-XRF2-05 805.191
2447023.107 310370.73   0   201.78  WIL-XRF2-06 794.635
2447036.848 310366.949  0   155.09  WIL-XRF2-07 790.909
2447027.893 310376.618  0   78.24   WIL-XRF2-08 797.926
2447059.917 310344.235  0   210.5   WIL-XRF2-09 793.148
2447219.673 310007.331  0   3841533.25  WIL-XRF-21  786.55
2447092.708 310342.286  0   140.9   WIL-XRF2-13 789.78
2447114.433 310357.276  0   211.93  WIL-XRF2-14 792.99
2447128.372 310383.535  0   89.34   WIL-XRF2-15 801.445
2447114.137 310419.388  0   246.5   WIL-XRF2-16 796.426
2447107.7   310449.342  0   1053.77 WIL-XRF2-17 799.708
2447118.651 310443.464  0   197.62  WIL-XRF2-18 801.614
2447127.814 310473.596  0   132.57  WIL-XRF2-19 798.495
2447221.389 309987.84   0   75781.2 WIL-XRF-22  785.144
2447159.221 310524.814  0   275.95  WIL-XRF2-21 796.083
2447156.525 310519.293  0   552.09  WIL-XRF2-22 796.722
2447082.815 310333.125  0   21.12   WIL-XRF2-23 789.667
2447000.51  310269.638  0   117.04  WIL-XRF2-24 785.994
2447063.696 310321.998  0   144 WIL-XRF2-25 788.152
2447240.268 310003.276  0   4756.06 WIL-XRF-23  785.638
2447145.199 309972.678  0   833.61  WIL-XRF-24  785.249
2447135.09  309930.138  0   1109.5  WIL-XRF-25  784.62
2447006.698 309958.954  0   370.8   WIL-XRF-26  785.494
2447197.14  310125.583  0   283.45  WIL-XRF-27  793.001
2447354.98  309894.525  0   2357.69 WIL-XRF-28  781.248
2447338.014 309854.824  0   22176.44    WIL-XRF-29  779.862
2447317.909 309795.204  0   2857.45 WIL-XRF-30  780 #elevation chagned to 780
2447337.1   309761.035  0   185.01  WIL-XRF-31  779.341
2447295.114 309766.885  0   604.78  WIL-XRF-32  777.984
2447329.368 309721.881  0   226.15  WIL-XRF-33  779.953
2447303.698 309676.473  0   137.92  WIL-XRF-34  781.656
2447203.619 309730.062  0   316.73  WIL-XRF-35  785.011
2447201.406 309770.65   0   213 WIL-XRF-36  780 #Changed to 780
2447227.73  309774.481  0   785.94  WIL-XRF-37  780.442
2447232.409 309825.743  0   1938.07 WIL-XRF-38  777.509
2447175.073 309872.145  0   424.67  WIL-XRF-39  780.129
2447199.544 309915.837  0   510.78  WIL-XRF-40  781.571
2447223.87  309906.044  0   16893.65    WIL-XRF-41  781.016
2447159.03  310023.006  0   375.12  WIL-XRF-42  782.09
2447196.529 310009.13   0   3182.56 WIL-XRF-43  780.517
2447261.614 310110.438  0   621.23  WIL-XRF-44  791.094
2447310.573 310084.202  0   2836.3  WIL-XRF-45  785.485
2447342.355 310020.697  0   8173.72 WIL-XRF-46  779.66
2447361.465 309932.854  0   2222.4  WIL-XRF-47  782.922
2447306.198 310105.674  0   793.57  WIL-XRF-48  782.776
2447341.286 310110.474  0   989.71  WIL-XRF-49  786.608
2447359.488 310015.808  0   1098.27 WIL-XRF-50  783.919
2447368.945 309983.173  0   2869.42 WIL-XRF-51  788.019
2447390.953 310002.768  0   132.85  WIL-XRF-52  784.343
2447408.439 309994.124  0   346.56  WIL-XRF-53  779.062
2447377.82  309928.914  0   917.69  WIL-XRF-54  784.583
2447379.521 309917.036  0   525.43  WIL-XRF-55  780.276
2447370.225 309871.739  0   2124.62 WIL-XRF-56  780.942
2447480.939 309933.252  0   95.74   WIL-XRF-57  782.147
2447459.286 309871.642  0   161.47  WIL-XRF-58  777.121
2447238.31  309972.605  0   17183.36    WIL-XRF-59  784.755
2447261.091 309943.091  0   10919.86    WIL-XRF-60  784.738
2447278.08  309937.313  0   249533.36   WIL-XRF-61  784.875
2447305.852 309923.806  0   11410.92    WIL-XRF-62  783.99
2447300.95  309952.615  0   20588.28    WIL-XRF-63  784.748
2447277.498 309978.686  0   6307.96 WIL-XRF-64  785.069
2447267.353 310028.681  0   15258.91    WIL-XRF-65  786.236
2447239.459 310050.417  0   36290.78    WIL-XRF-66  788.843
2447216.952 310037.591  0   1014747.94  WIL-XRF-67  787.282
2447204.987 310078.37   0   5078.06 WIL-XRF-68  789.546
2447249.886 310076.312  0   4234.77 WIL-XRF-69  789.202
2447283.268 310077.287  0   8345.42 WIL-XRF-70  788.462
2447295.402 310038.503  0   14925.35    WIL-XRF-71  787.488
2447314.693 310002.297  0   2110.37 WIL-XRF-72  785.089
2447343.05  309959.498  0   4199.15 WIL-XRF-73  785.461
2447267.329 310002.31   0   11705.94    WIL-XRF-74  785.51
2447295.861 310008.223  0   10479.49    WIL-XRF-75  785.668
```

Attachment 3

Summary of Kriging Statistics and Settings

Kriged Total Fluorescence - Site Wide Data Set



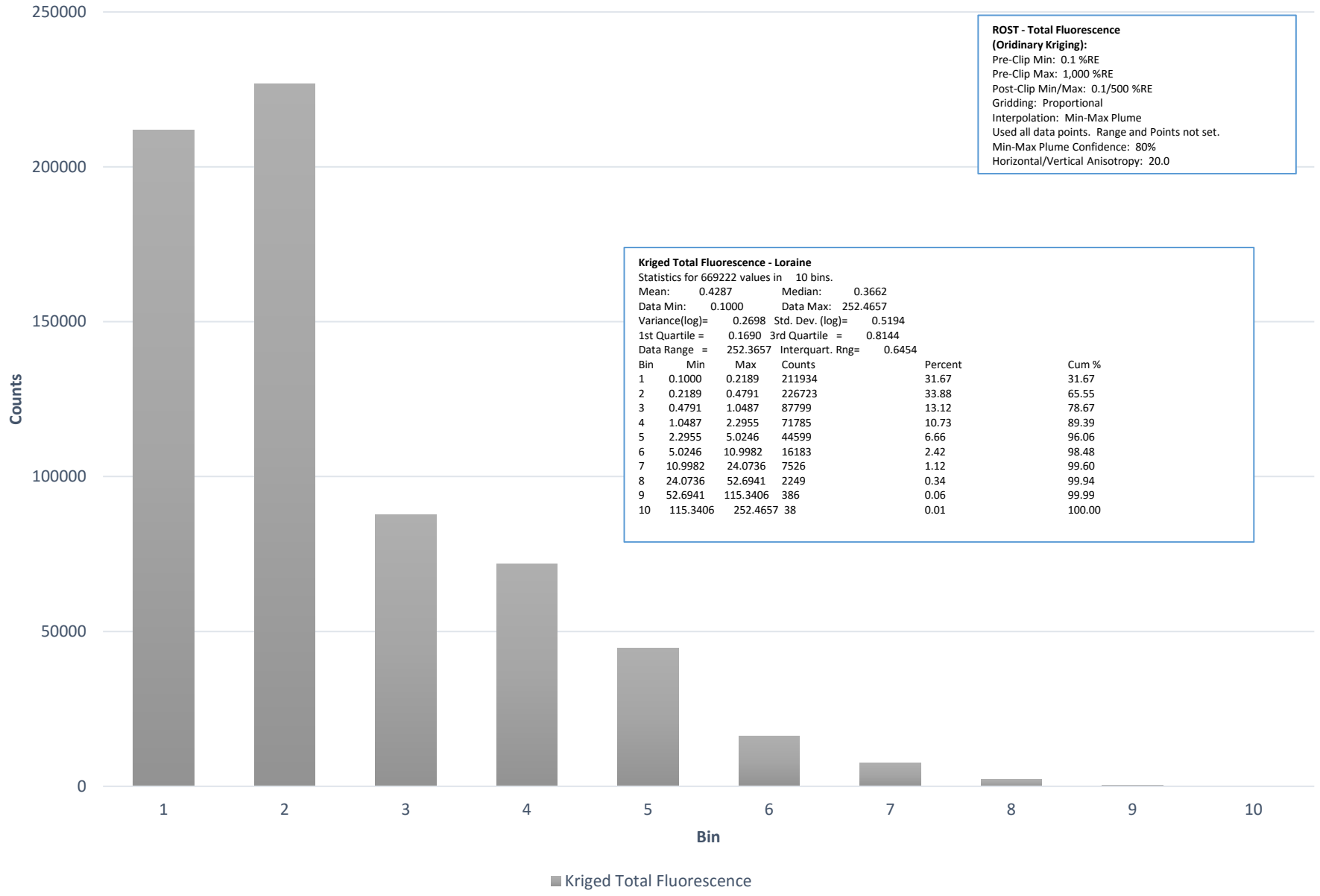
ROST - Total Fluorescence
(Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - Site Wide
Statistics for 2070702 values in 10 bins.

Mean:	0.3685	Median:	0.3921
Data Min:	0.1000	Data Max:	240.8601
Variance(log)=	0.1554	Std. Dev. (log)=	0.3942
1st Quartile =	0.1796	3rd Quartile =	0.6700
Data Range =	240.7601	Interquart. Rng=	0.4905

Bin	Min	Max	Counts	Percent	Cum %
1	0.1000	0.2179	606195	29.27	29.27
2	0.2179	0.4746	615851	29.74	59.02
3	0.4746	1.0340	629764	30.41	89.43
4	1.0340	2.2527	163980	7.92	97.35
5	2.2527	4.9078	38467	1.86	99.21
6	4.9078	10.6920	10836	0.52	99.73
7	10.6920	23.2935	4229	0.20	99.93
8	23.2935	50.7472	1173	0.06	99.99
9	50.7472	110.5575	189	0.01	100.00
10	110.5575	240.8601	18	0.00	100.00

Kriged Total Fluorescence - Loraine Grid

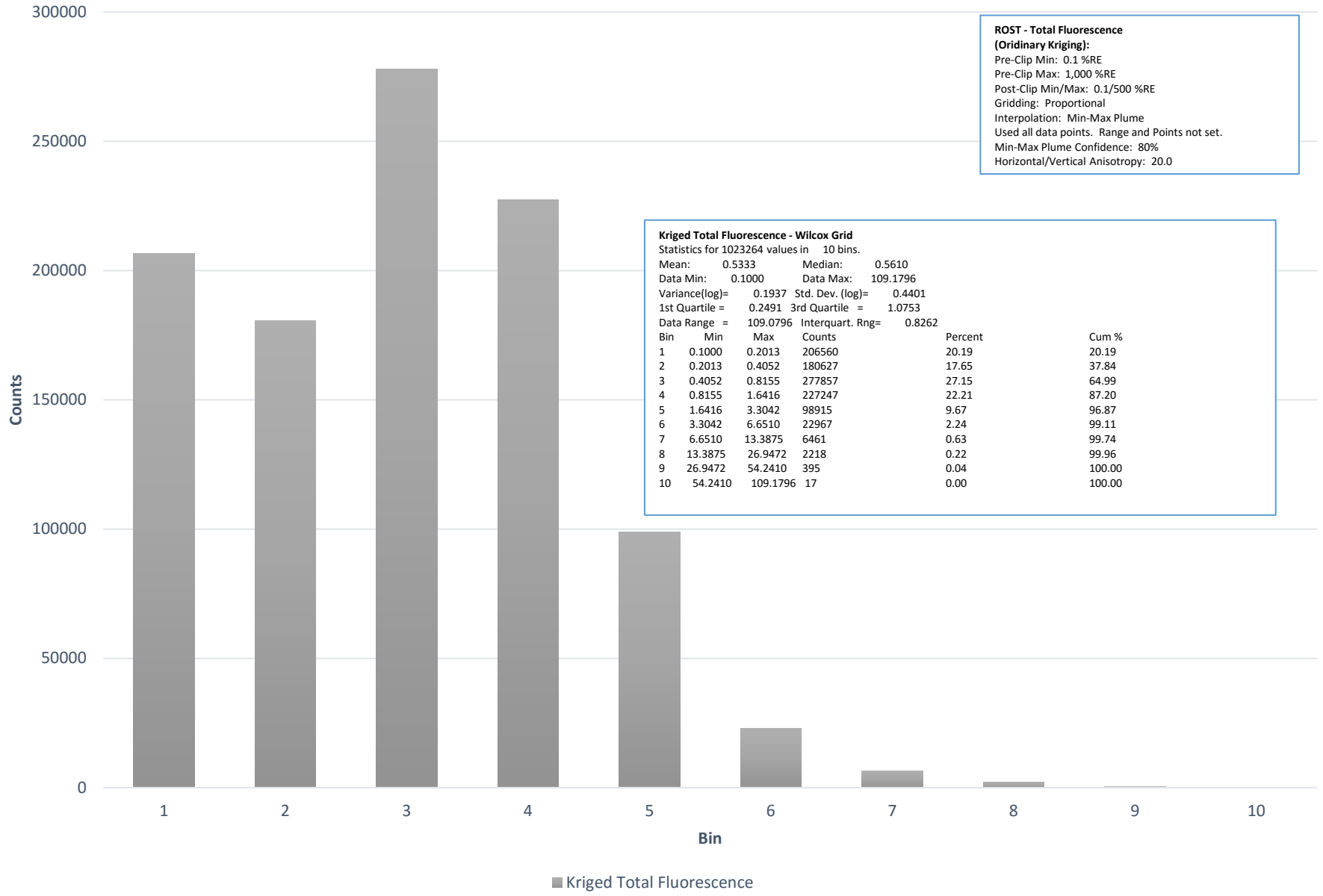


ROST - Total Fluorescence
(Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - Loraine
Statistics for 669222 values in 10 bins.
Mean: 0.4287 Median: 0.3662
Data Min: 0.1000 Data Max: 252.4657
Variance(log)= 0.2698 Std. Dev. (log)= 0.5194
1st Quartile = 0.1690 3rd Quartile = 0.8144
Data Range = 252.3657 Interquart. Rng= 0.6454

Bin	Min	Max	Counts	Percent	Cum %
1	0.1000	0.2189	211934	31.67	31.67
2	0.2189	0.4791	226723	33.88	65.55
3	0.4791	1.0487	87799	13.12	78.67
4	1.0487	2.2955	71785	10.73	89.39
5	2.2955	5.0246	44599	6.66	96.06
6	5.0246	10.9982	16183	2.42	98.48
7	10.9982	24.0736	7526	1.12	99.60
8	24.0736	52.6941	2249	0.34	99.94
9	52.6941	115.3406	386	0.06	99.99
10	115.3406	252.4657	38	0.01	100.00

Kriged Total Fluorescence - Wilcox Grid

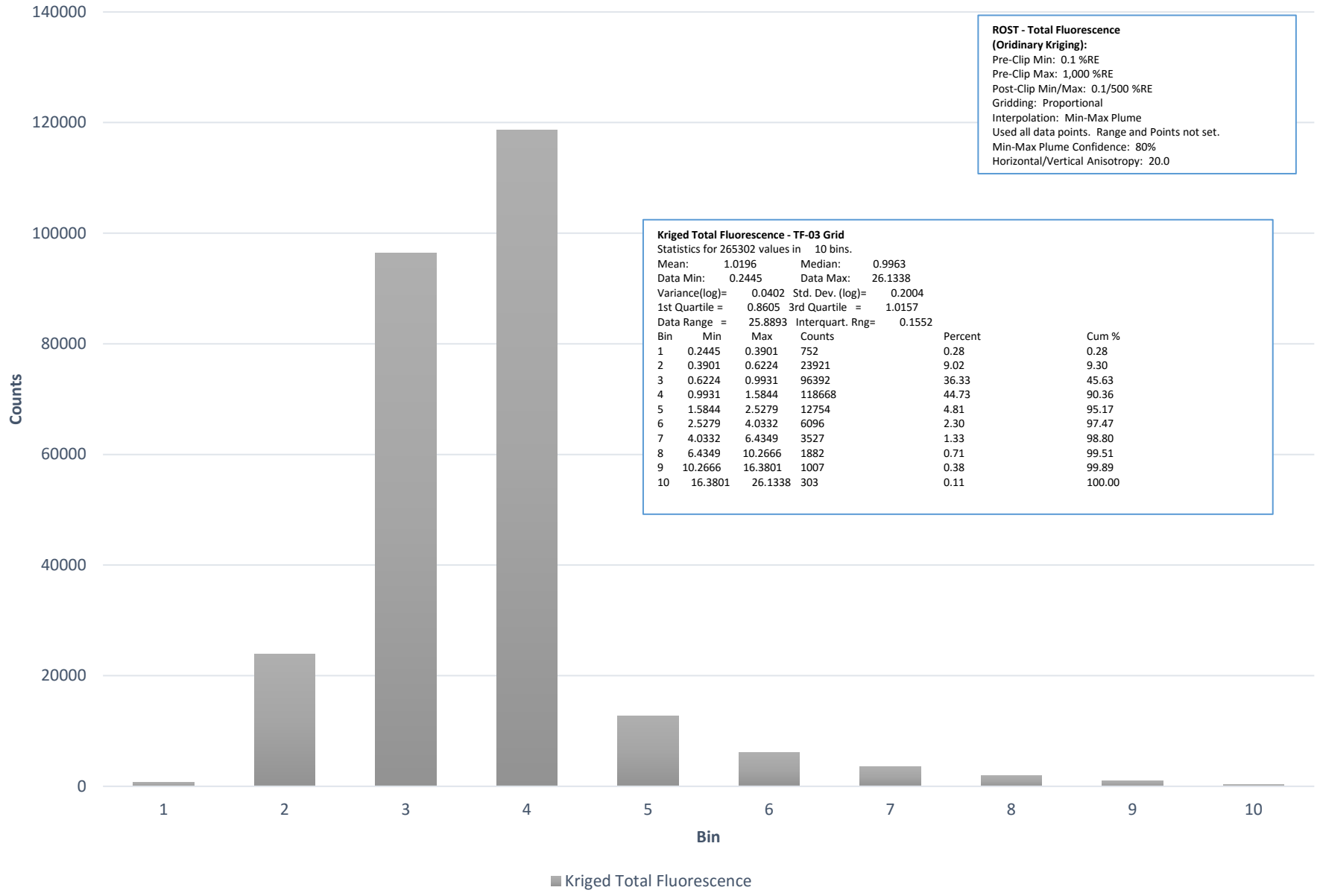


ROST - Total Fluorescence (Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - Wilcox Grid
Statistics for 1023264 values in 10 bins.
Mean: 0.5333 Median: 0.5610
Data Min: 0.1000 Data Max: 109.1796
Variance(log)= 0.1937 Std. Dev. (log)= 0.4401
1st Quartile = 0.2491 3rd Quartile = 1.0753
Data Range = 109.0796 Interquart. Rng= 0.8262

Bin	Min	Max	Counts	Percent	Cum %
1	0.1000	0.2013	206560	20.19	20.19
2	0.2013	0.4052	180627	17.65	37.84
3	0.4052	0.8155	277857	27.15	64.99
4	0.8155	1.6416	227247	22.21	87.20
5	1.6416	3.3042	98915	9.67	96.87
6	3.3042	6.6510	22967	2.24	99.11
7	6.6510	13.3875	6461	0.63	99.74
8	13.3875	26.9472	2218	0.22	99.96
9	26.9472	54.2410	395	0.04	100.00
10	54.2410	109.1796	17	0.00	100.00

Kriged Total Fluorescence - TF-03 Grid

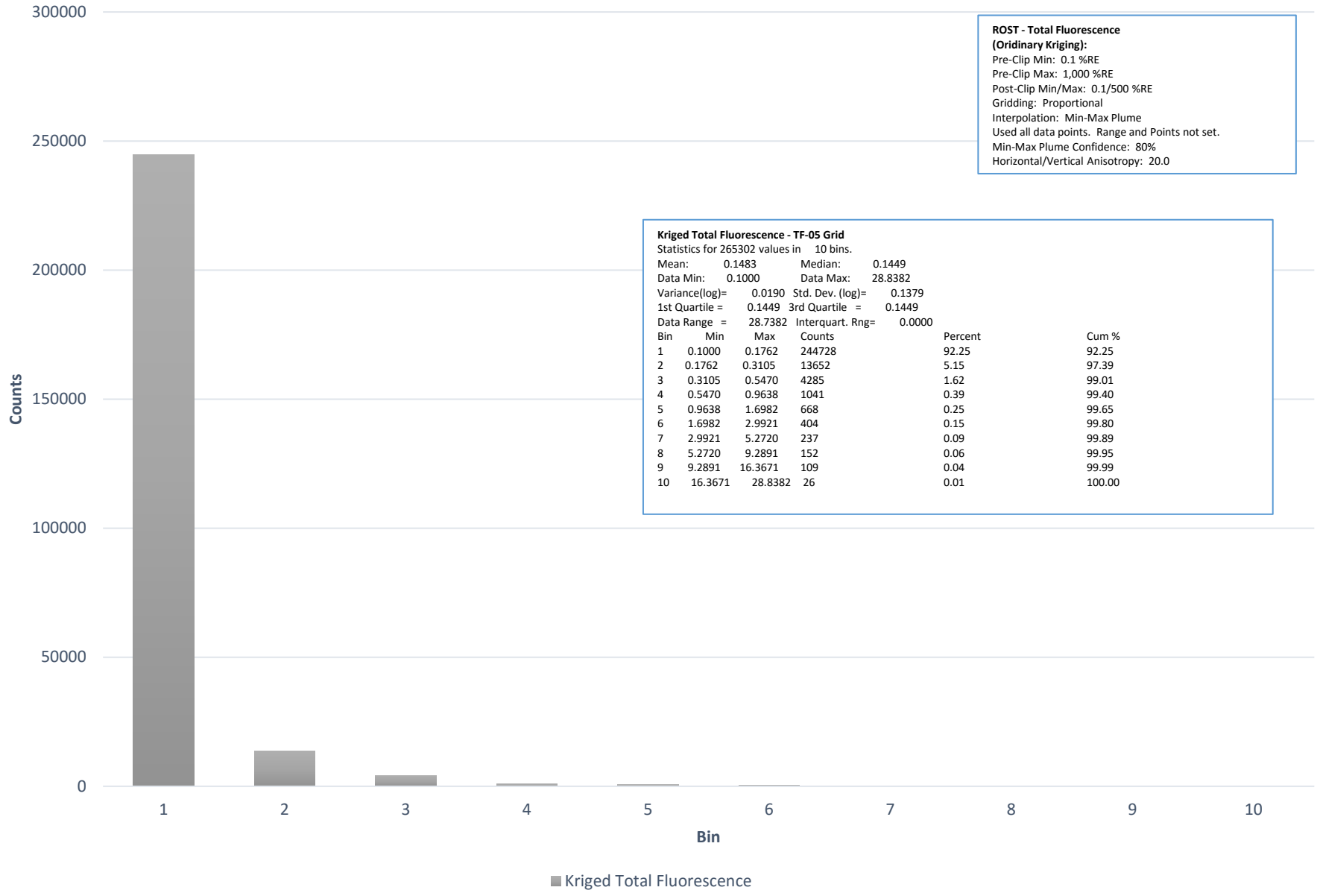


ROST - Total Fluorescence (Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - TF-03 Grid
Statistics for 265302 values in 10 bins.
Mean: 1.0196 Median: 0.9963
Data Min: 0.2445 Data Max: 26.1338
Variance(log)= 0.0402 Std. Dev. (log)= 0.2004
1st Quartile = 0.8605 3rd Quartile = 1.0157
Data Range = 25.8893 Interquart. Rng= 0.1552

Bin	Min	Max	Counts	Percent	Cum %
1	0.2445	0.3901	752	0.28	0.28
2	0.3901	0.6224	23921	9.02	9.30
3	0.6224	0.9931	96392	36.33	45.63
4	0.9931	1.5844	118668	44.73	90.36
5	1.5844	2.5279	12754	4.81	95.17
6	2.5279	4.0332	6096	2.30	97.47
7	4.0332	6.4349	3527	1.33	98.80
8	6.4349	10.2666	1882	0.71	99.51
9	10.2666	16.3801	1007	0.38	99.89
10	16.3801	26.1338	303	0.11	100.00

Kriged Total Fluorescence - TF-05 Grid

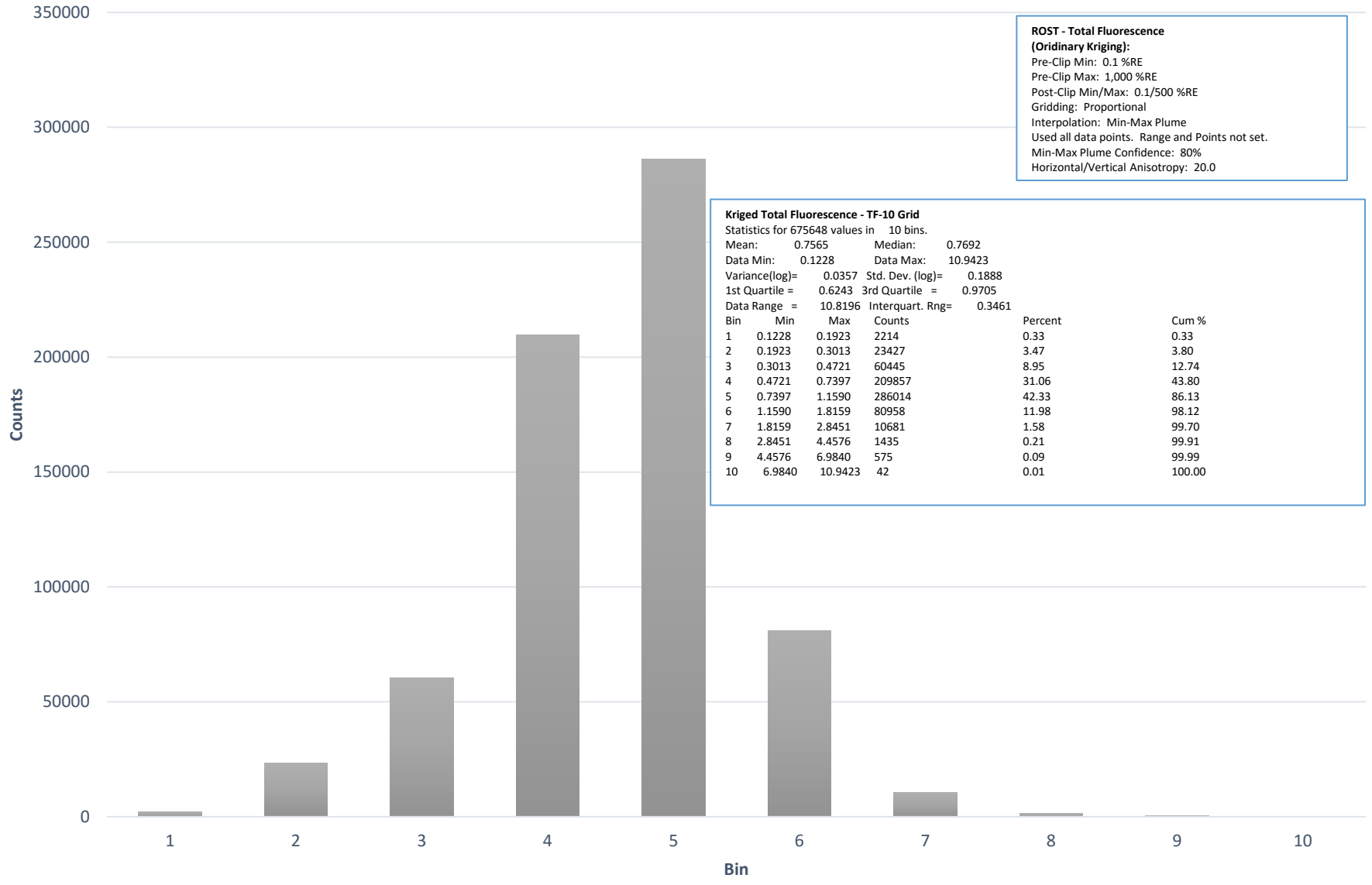


ROST - Total Fluorescence (Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - TF-05 Grid
Statistics for 265302 values in 10 bins.
Mean: 0.1483 Median: 0.1449
Data Min: 0.1000 Data Max: 28.8382
Variance(log)= 0.0190 Std. Dev. (log)= 0.1379
1st Quartile = 0.1449 3rd Quartile = 0.1449
Data Range = 28.7382 Interquart. Rng= 0.0000

Bin	Min	Max	Counts	Percent	Cum %
1	0.1000	0.1762	244728	92.25	92.25
2	0.1762	0.3105	13652	5.15	97.39
3	0.3105	0.5470	4285	1.62	99.01
4	0.5470	0.9638	1041	0.39	99.40
5	0.9638	1.6982	668	0.25	99.65
6	1.6982	2.9921	404	0.15	99.80
7	2.9921	5.2720	237	0.09	99.89
8	5.2720	9.2891	152	0.06	99.95
9	9.2891	16.3671	109	0.04	99.99
10	16.3671	28.8382	26	0.01	100.00

Kriged Total Fluorescence - TF-10 Grid

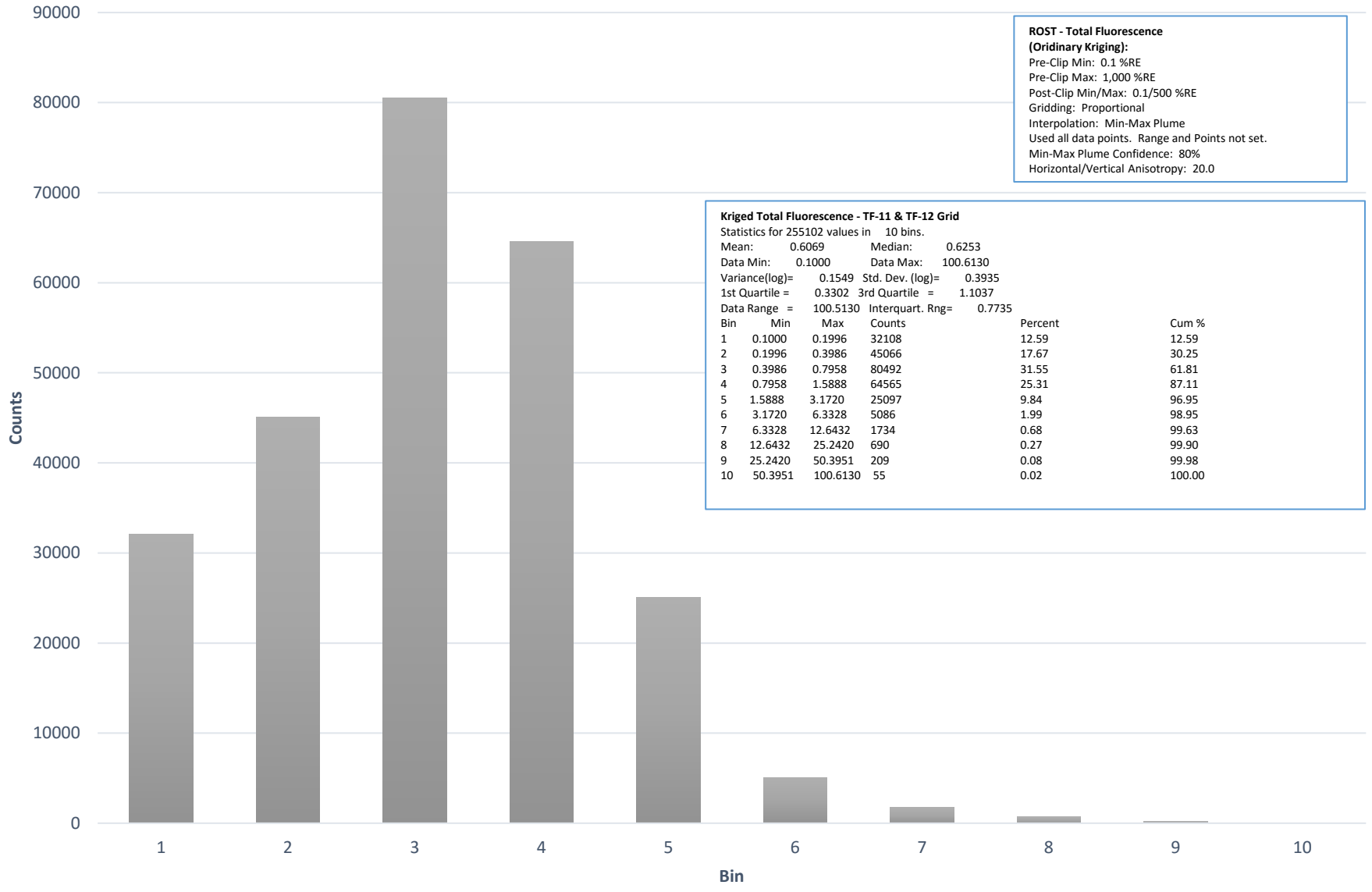


ROST - Total Fluorescence (Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - TF-10 Grid
Statistics for 675648 values in 10 bins.
Mean: 0.7565 Median: 0.7692
Data Min: 0.1228 Data Max: 10.9423
Variance(log)= 0.0357 Std. Dev. (log)= 0.1888
1st Quartile = 0.6243 3rd Quartile = 0.9705
Data Range = 10.8196 Interquart. Rng= 0.3461

Bin	Min	Max	Counts	Percent	Cum %
1	0.1228	0.1923	2214	0.33	0.33
2	0.1923	0.3013	23427	3.47	3.80
3	0.3013	0.4721	60445	8.95	12.74
4	0.4721	0.7397	209857	31.06	43.80
5	0.7397	1.1590	286014	42.33	86.13
6	1.1590	1.8159	80958	11.98	98.12
7	1.8159	2.8451	10681	1.58	99.70
8	2.8451	4.4576	1435	0.21	99.91
9	4.4576	6.9840	575	0.09	99.99
10	6.9840	10.9423	42	0.01	100.00

Kriged Total Fluorescence - TF-11 & TF-12 Grid

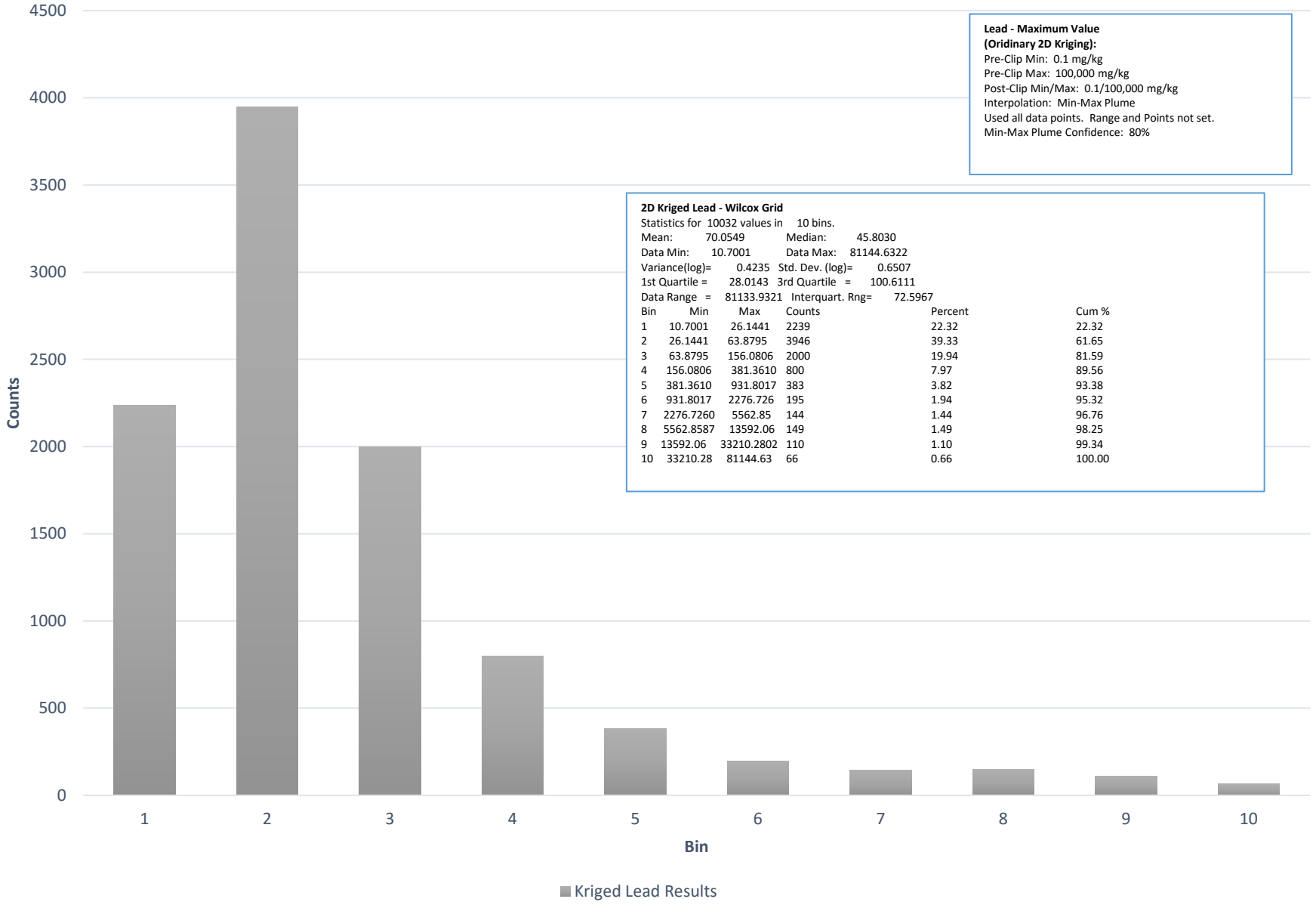


ROST - Total Fluorescence
(Oridinary Kriging):
Pre-Clip Min: 0.1 %RE
Pre-Clip Max: 1,000 %RE
Post-Clip Min/Max: 0.1/500 %RE
Gridding: Proportional
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%
Horizontal/Vertical Anisotropy: 20.0

Kriged Total Fluorescence - TF-11 & TF-12 Grid
Statistics for 255102 values in 10 bins.
Mean: 0.6069 Median: 0.6253
Data Min: 0.1000 Data Max: 100.6130
Variance(log)= 0.1549 Std. Dev. (log)= 0.3935
1st Quartile = 0.3302 3rd Quartile = 1.1037
Data Range = 100.5130 Interquart. Rng= 0.7735

Bin	Min	Max	Counts	Percent	Cum %
1	0.1000	0.1996	32108	12.59	12.59
2	0.1996	0.3986	45066	17.67	30.25
3	0.3986	0.7958	80492	31.55	61.81
4	0.7958	1.5888	64565	25.31	87.11
5	1.5888	3.1720	25097	9.84	96.95
6	3.1720	6.3328	5086	1.99	98.95
7	6.3328	12.6432	1734	0.68	99.63
8	12.6432	25.2420	690	0.27	99.90
9	25.2420	50.3951	209	0.08	99.98
10	50.3951	100.6130	55	0.02	100.00

Kriged Lead (2D) - Wilcox Grid



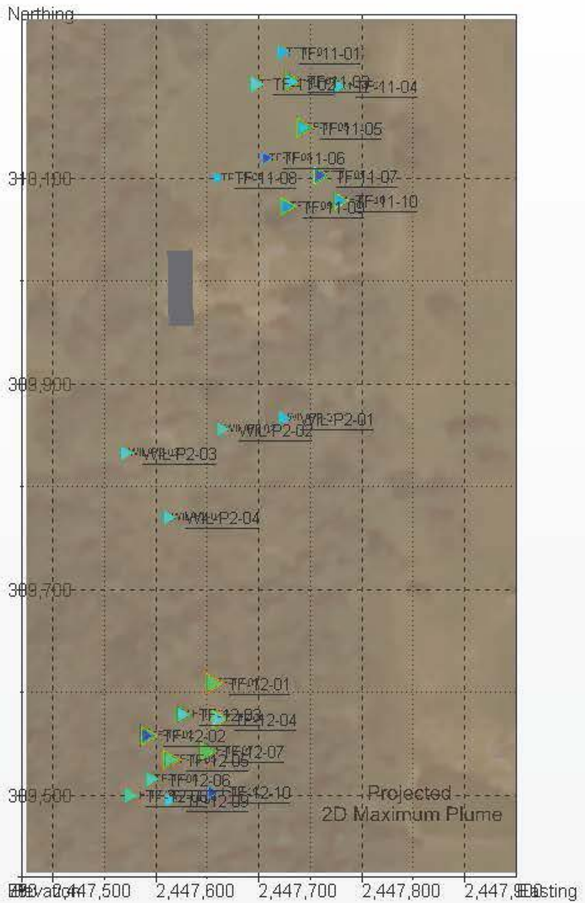
Lead - Maximum Value
(Oridinary 2D Kriging):
Pre-Clip Min: 0.1 mg/kg
Pre-Clip Max: 100,000 mg/kg
Post-Clip Min/Max: 0.1/100,000 mg/kg
Interpolation: Min-Max Plume
Used all data points. Range and Points not set.
Min-Max Plume Confidence: 80%

2D Kriged Lead - Wilcox Grid
Statistics for 10032 values in 10 bins.
Mean: 70.0549 Median: 45.8030
Data Min: 10.7001 Data Max: 81144.6322
Variance(log)= 0.4235 Std. Dev. (log)= 0.6507
1st Quartile = 28.0143 3rd Quartile = 100.6111
Data Range = 81133.9321 Interquart. Rng= 72.5967

Bin	Min	Max	Counts	Percent	Cum %
1	10.7001	26.1441	2239	22.32	22.32
2	26.1441	63.8795	3946	39.33	61.65
3	63.8795	156.0806	2000	19.94	81.59
4	156.0806	381.3610	800	7.97	89.56
5	381.3610	931.8017	383	3.82	93.38
6	931.8017	2276.726	195	1.94	95.32
7	2276.7260	5562.85	144	1.44	96.76
8	5562.8587	13592.06	149	1.49	98.25
9	13592.06	33210.2802	110	1.10	99.34
10	33210.28	81144.63	66	0.66	100.00

Wilcox Refinery Superfund Site
Bristol, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
ROST Borings
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

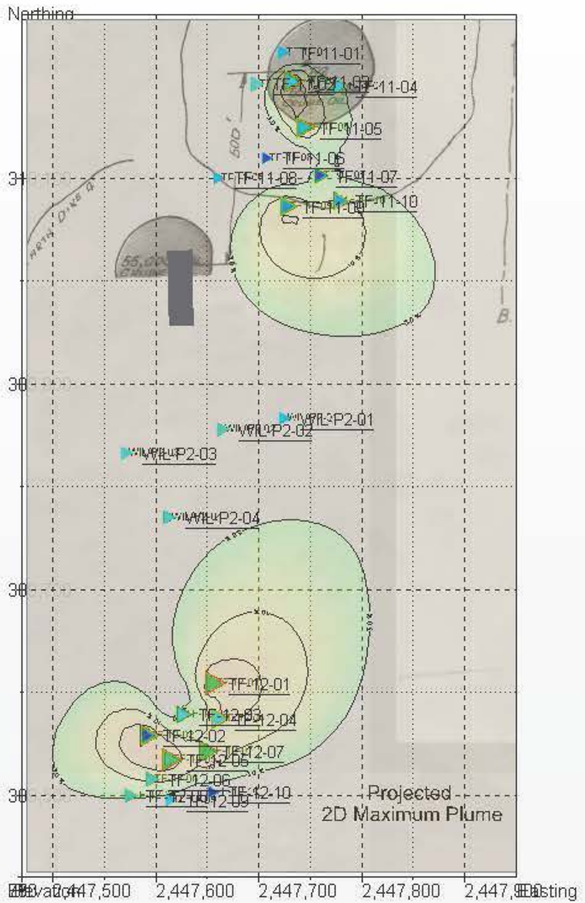
Geologic Interp.
Overburden
CPT Refusal

Data Visualization Completed by S2C2 Inc.

015223

Wilcox Refinery Superfund Site
Bristol, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
2D Maximum Fluorescence
1923 San Born Map
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

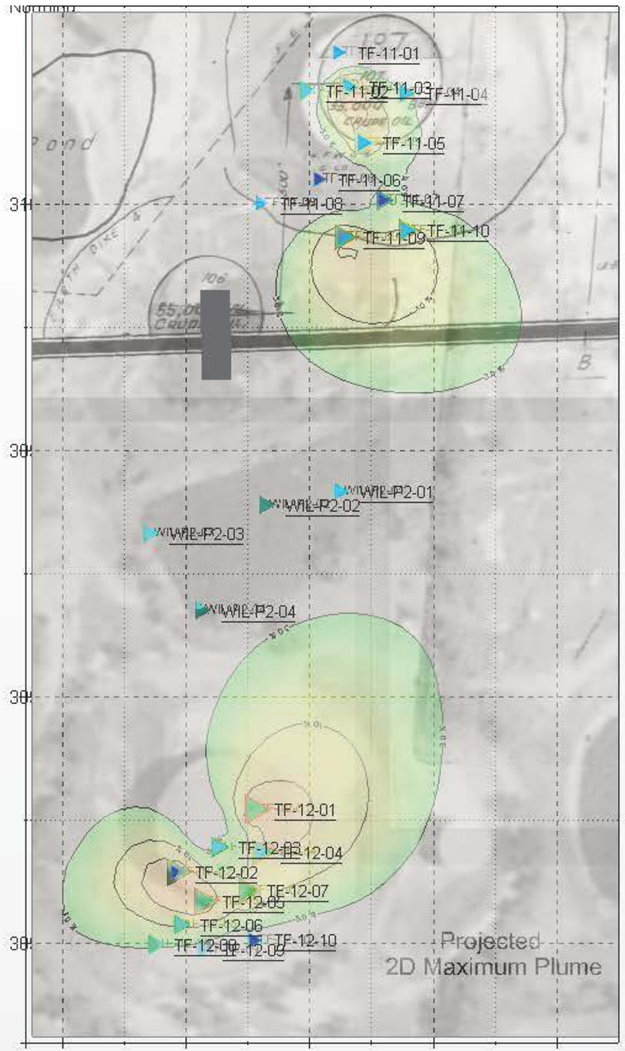
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015224

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
2D Maximum Fluorescence
1956 Aerial and 1961 San Born
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

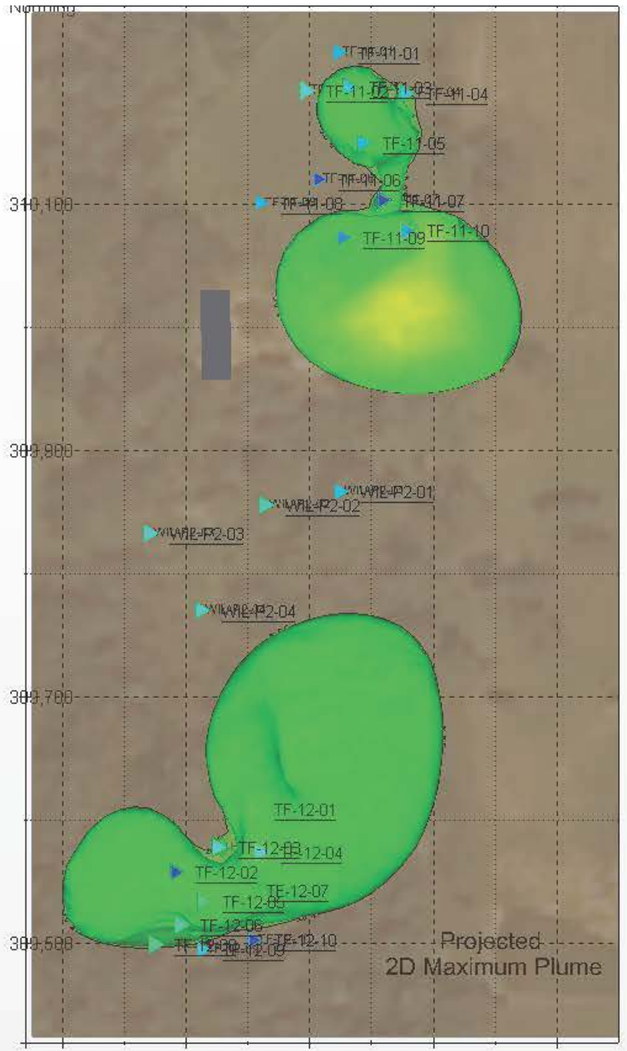
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015225

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

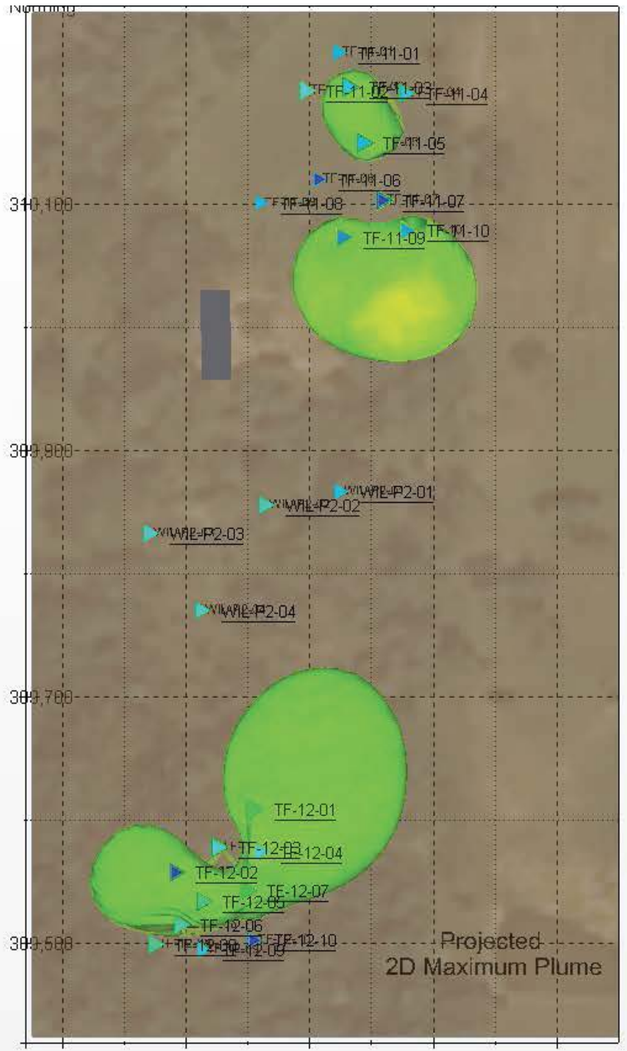
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015226

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

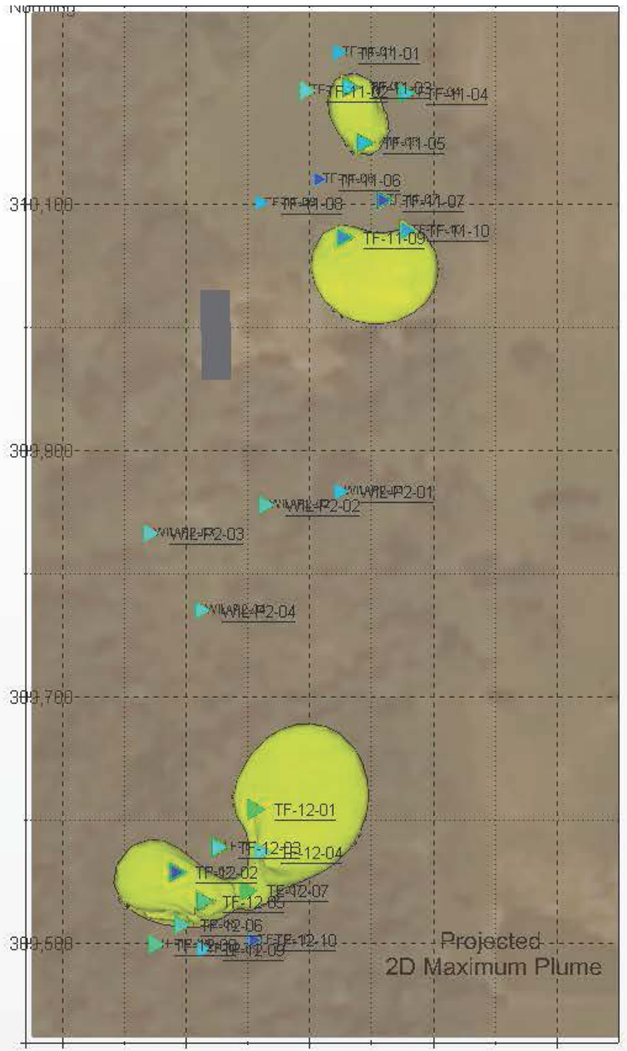
Fluorescence, above 5.0 %

Data Visualization Completed by S2C2 Inc.

015227

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

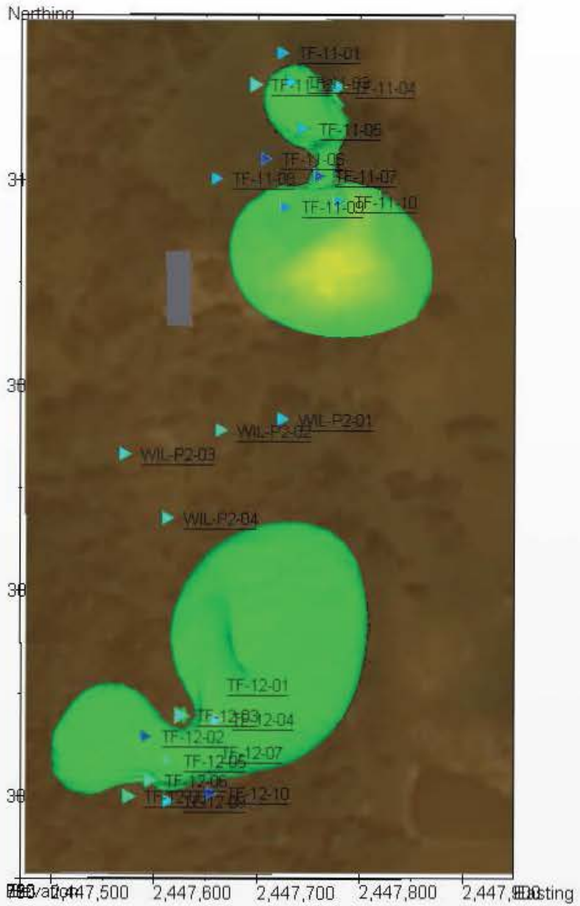
Fluorescence, above 10 %

Data Visualization Completed by S2C2 Inc.

015228

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

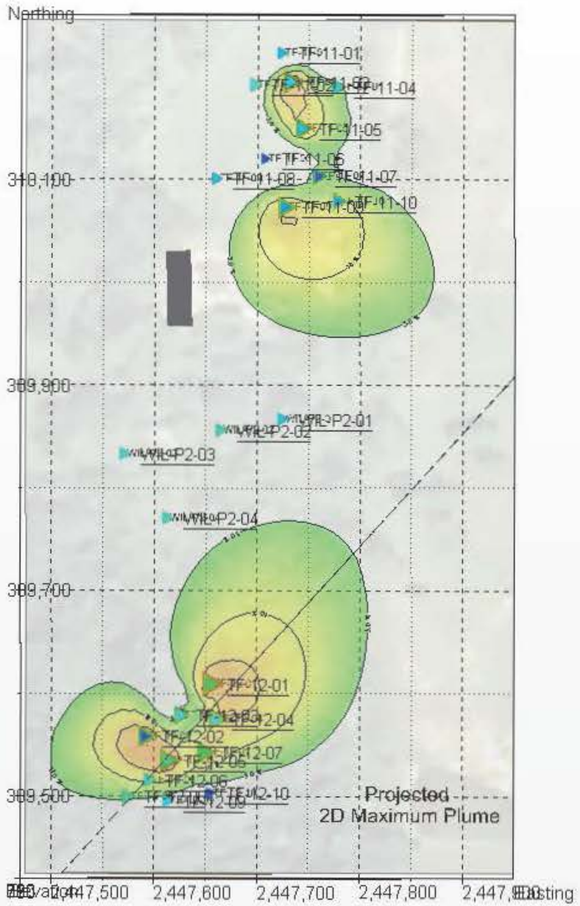
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015229

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

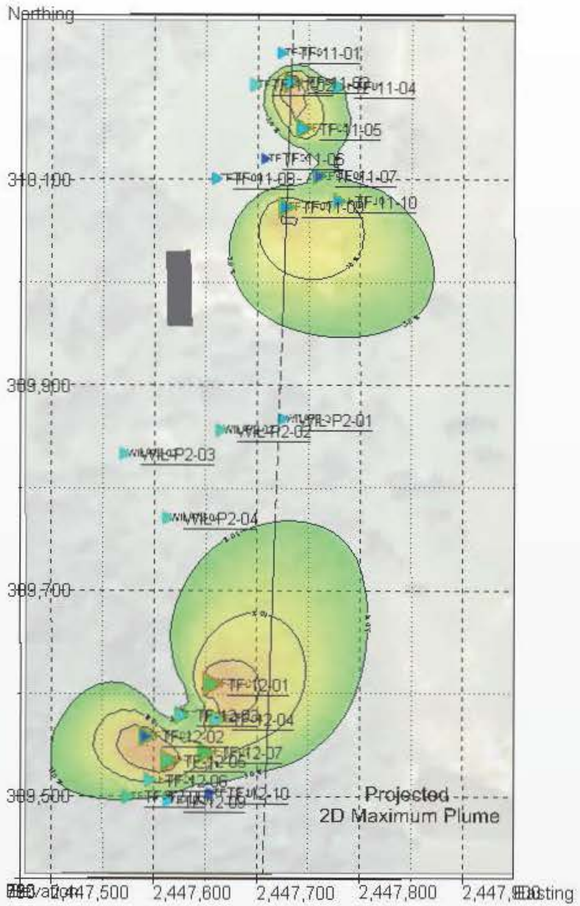
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015230

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

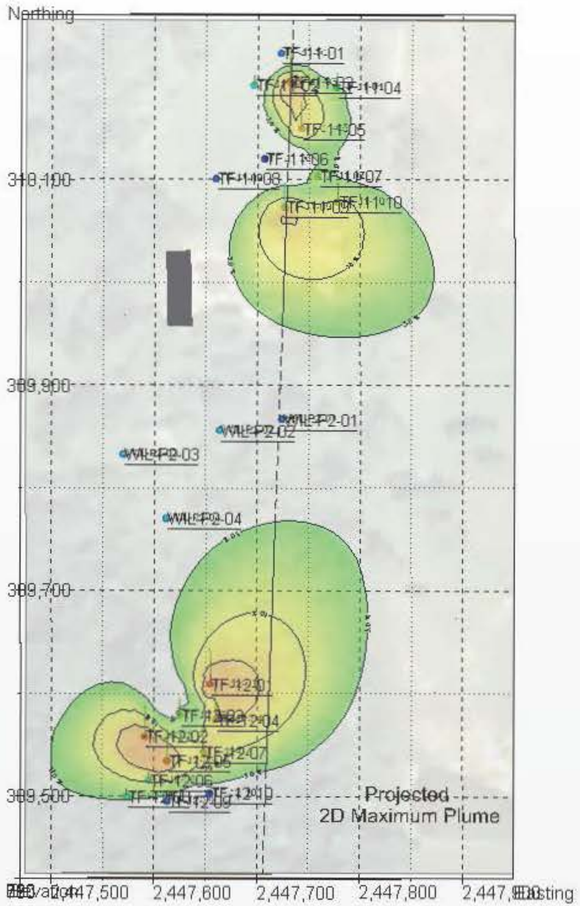
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015231

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 11 & 12 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

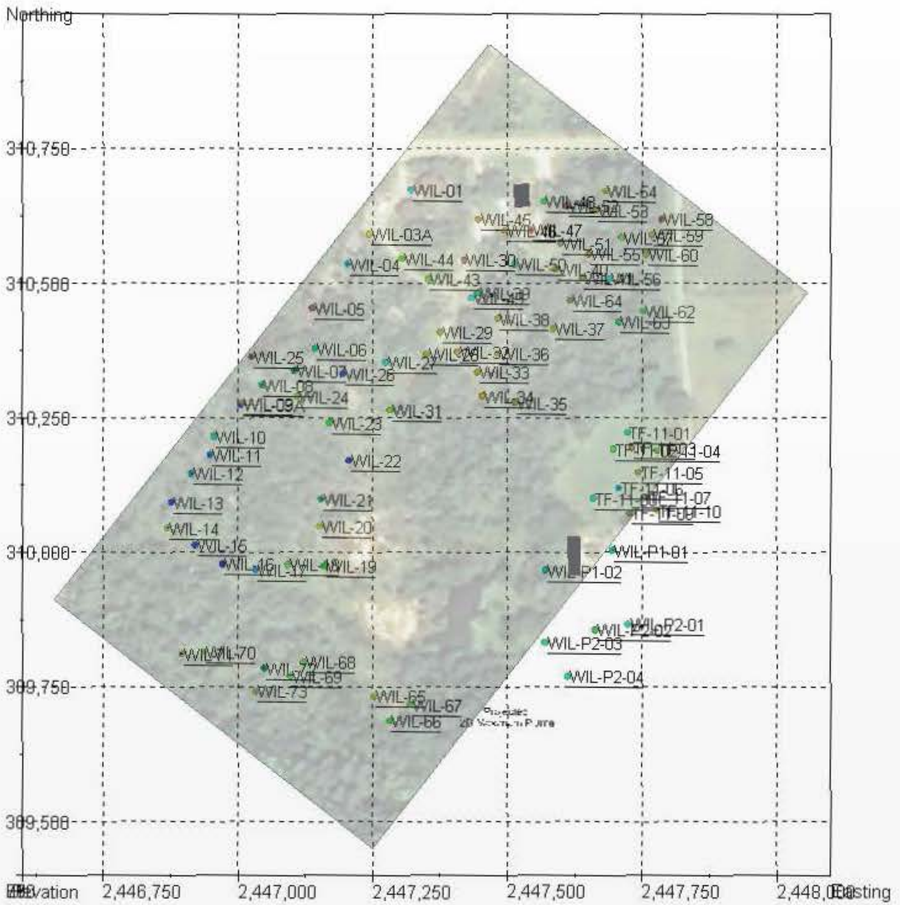
Fluorescence, above 3.0 %

Data Visualization Completed by S2C2 Inc.

015232

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
ROST Borings
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

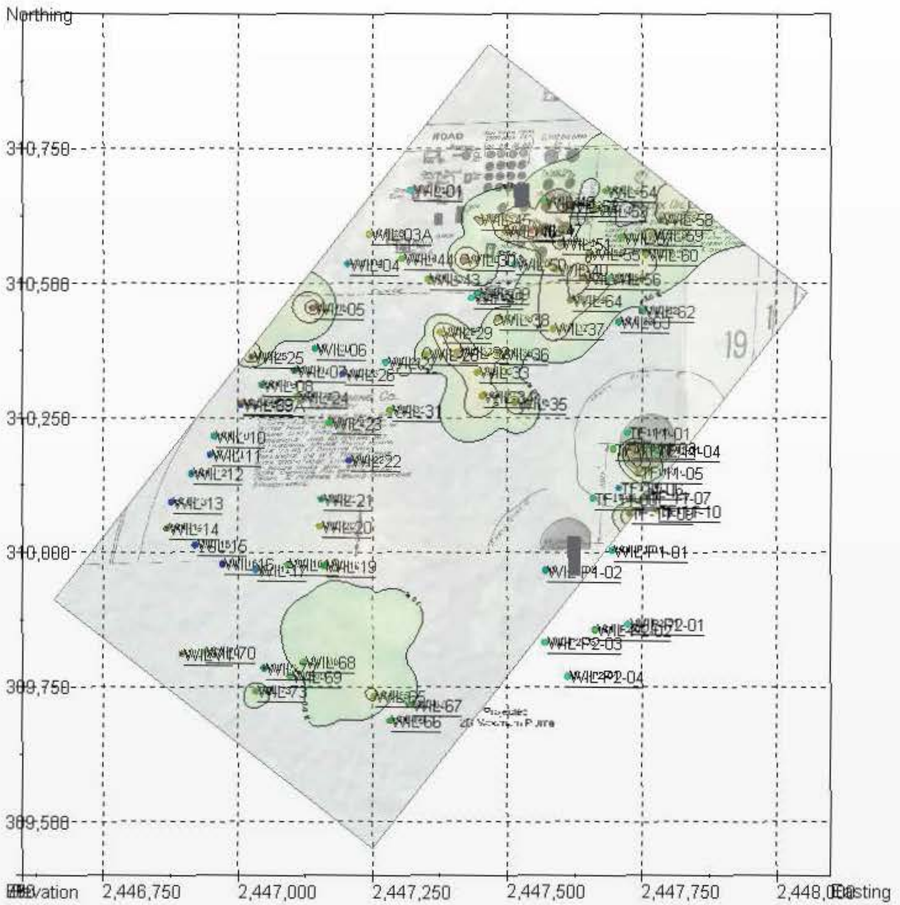
Geologic Interp.
Overburden
CPT Refusal

Data Visualization Completed by S2C2 Inc.

015233

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum Fluorescence
1923 San Born Map
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

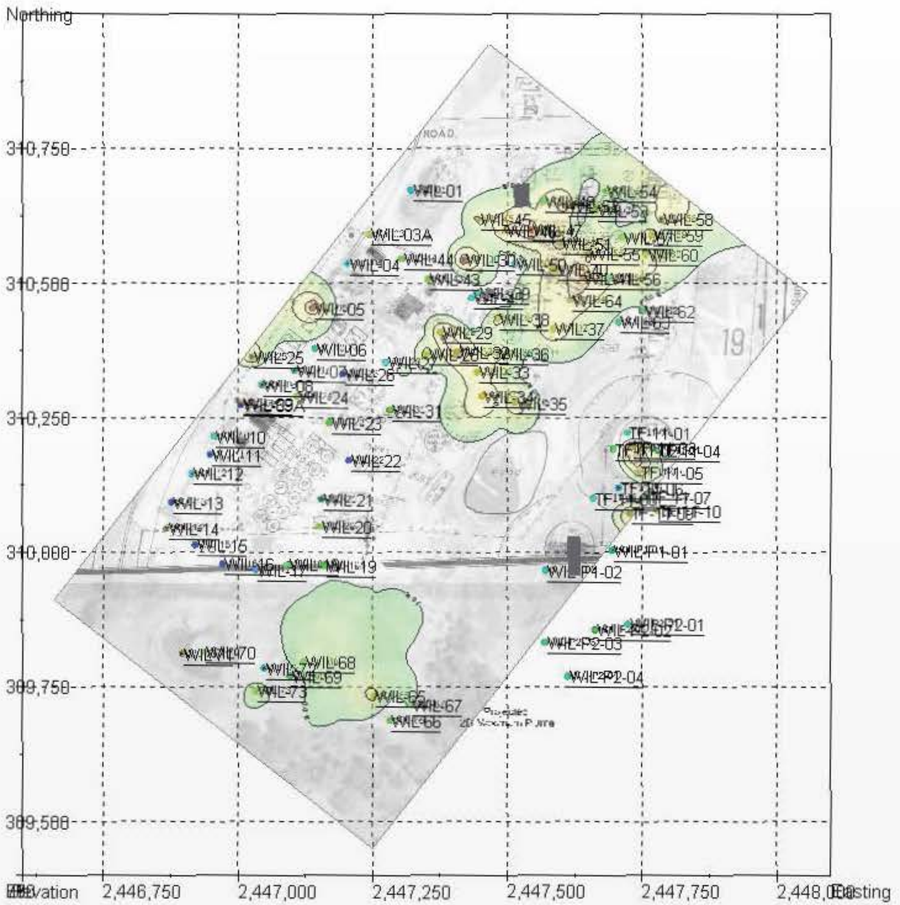
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015234

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum Fluorescence
1956 Aerial and 1961 San Born
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

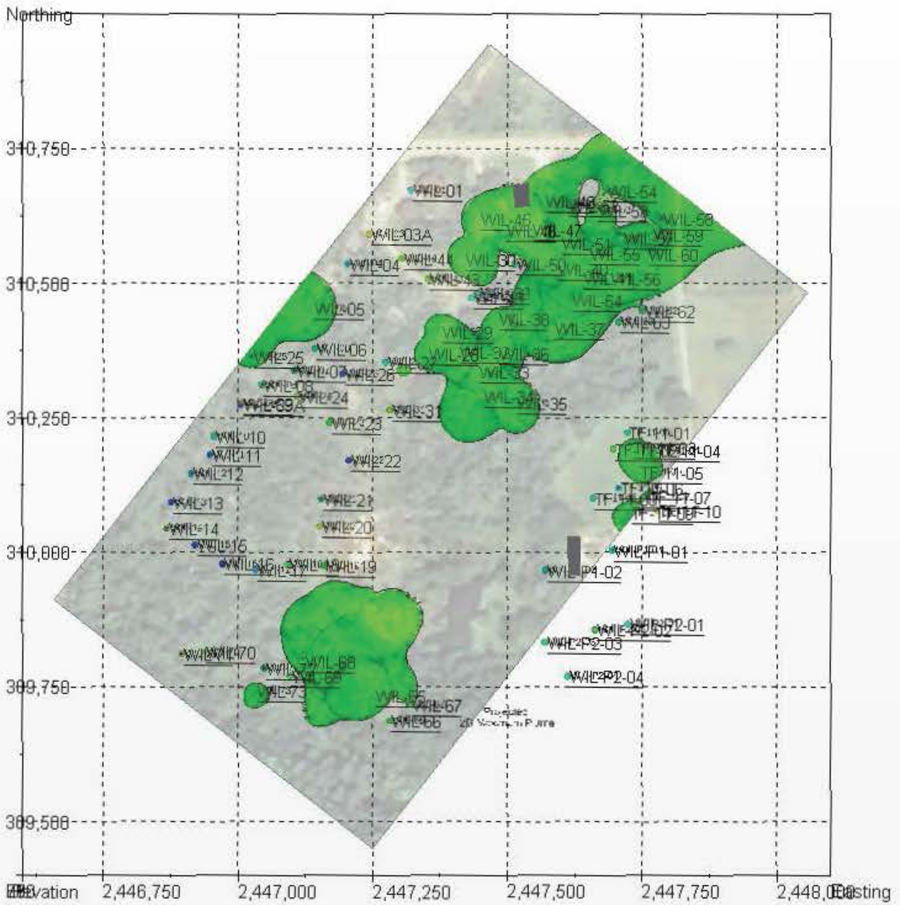
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015235

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

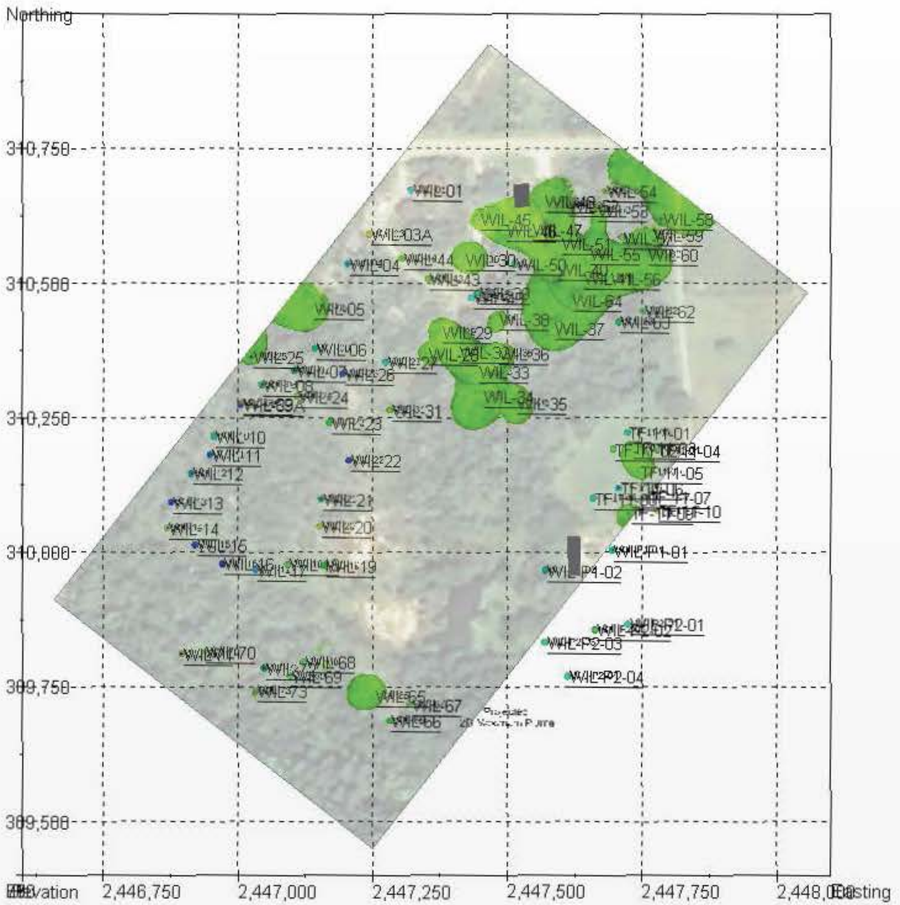
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015236

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

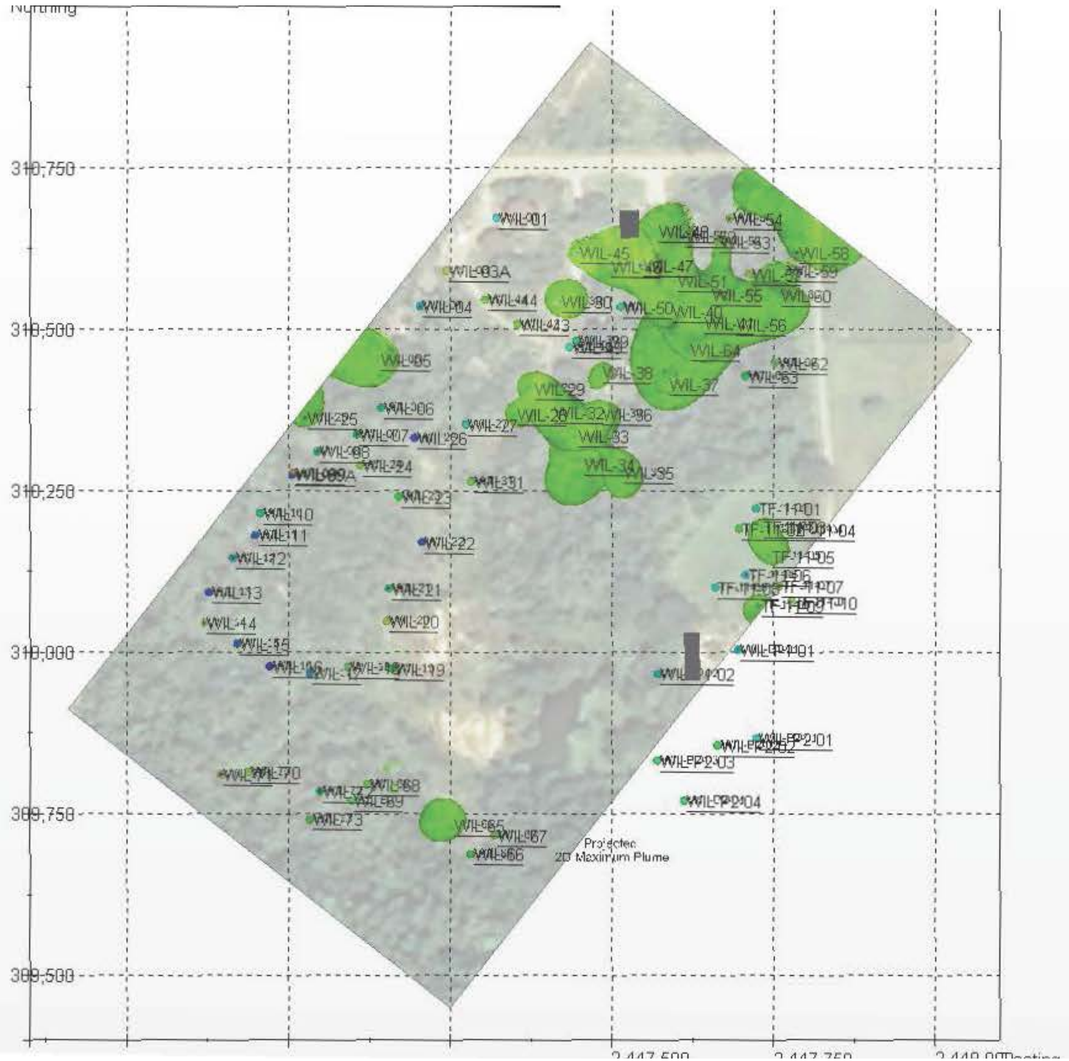
Fluorescence above 5.0 %

Data Visualization Completed by S2C2 Inc.

015237

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

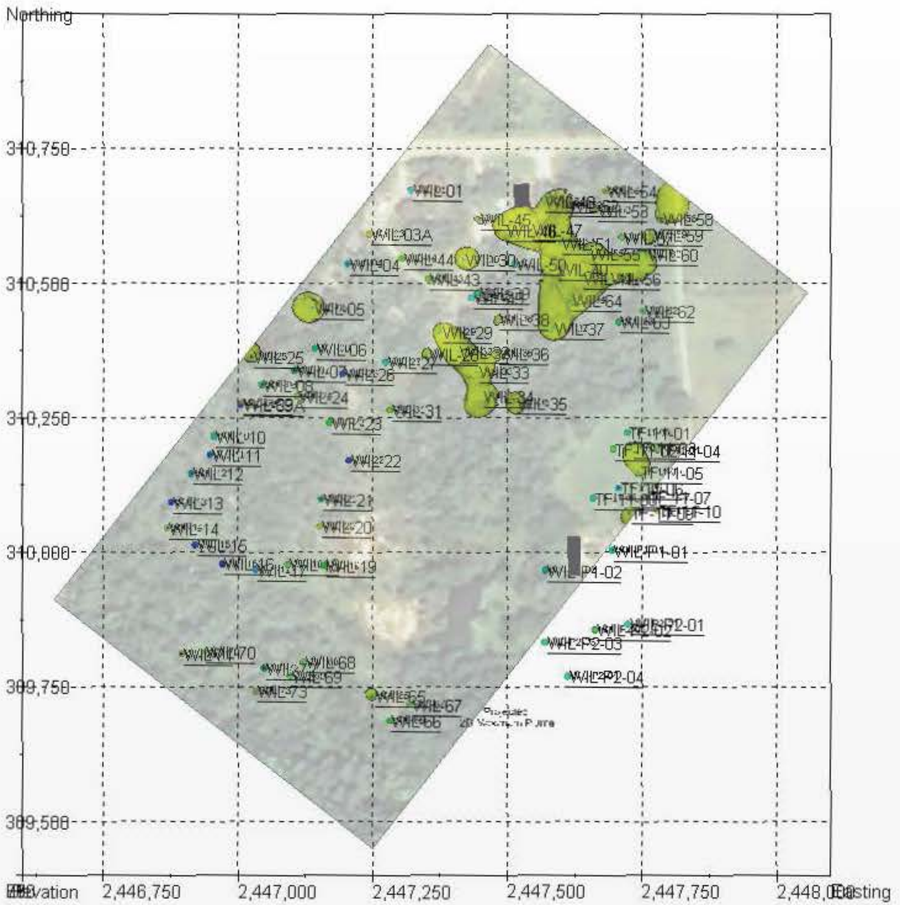
Fluorescence above 5.0 %

Data Visualization Completed by S2C2 Inc.

015238

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

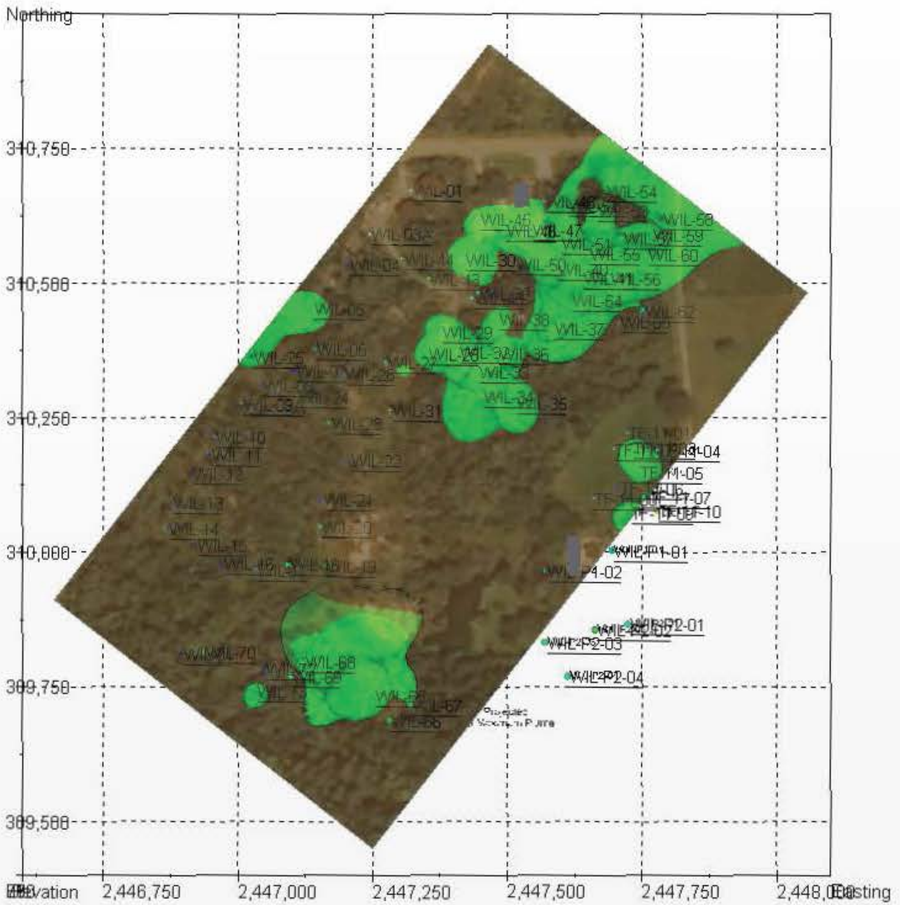
Fluorescence above 10 %

Data Visualization Completed by S2C2 Inc.

015239

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

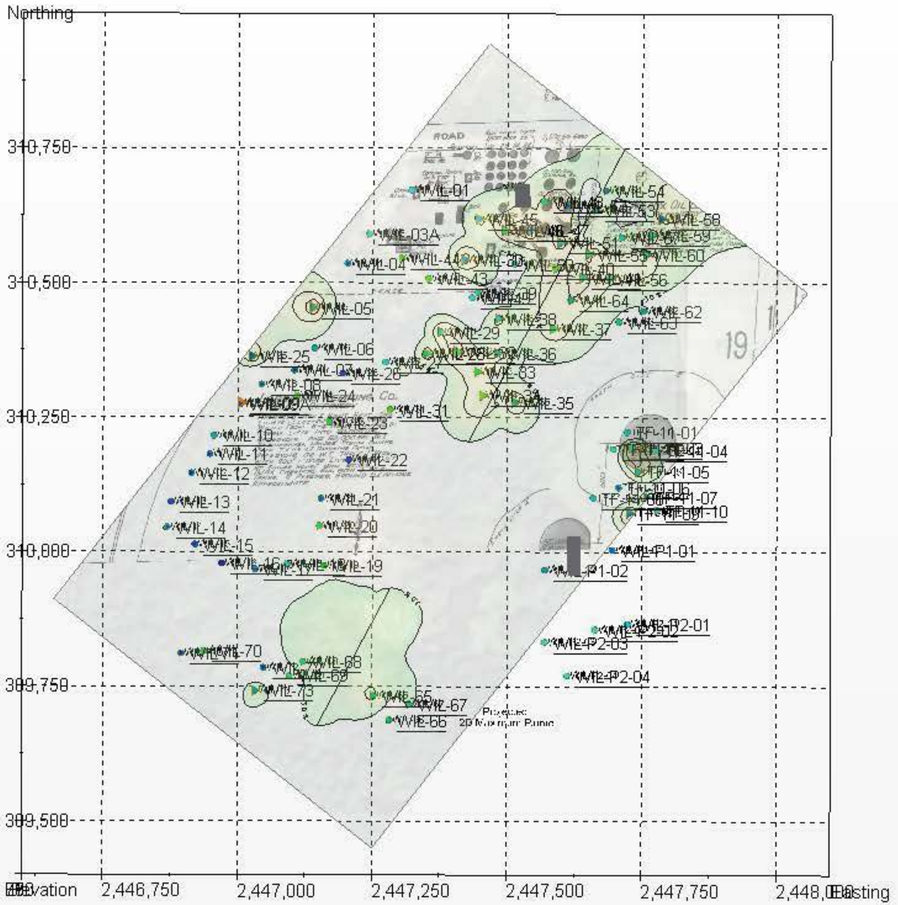
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015240

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

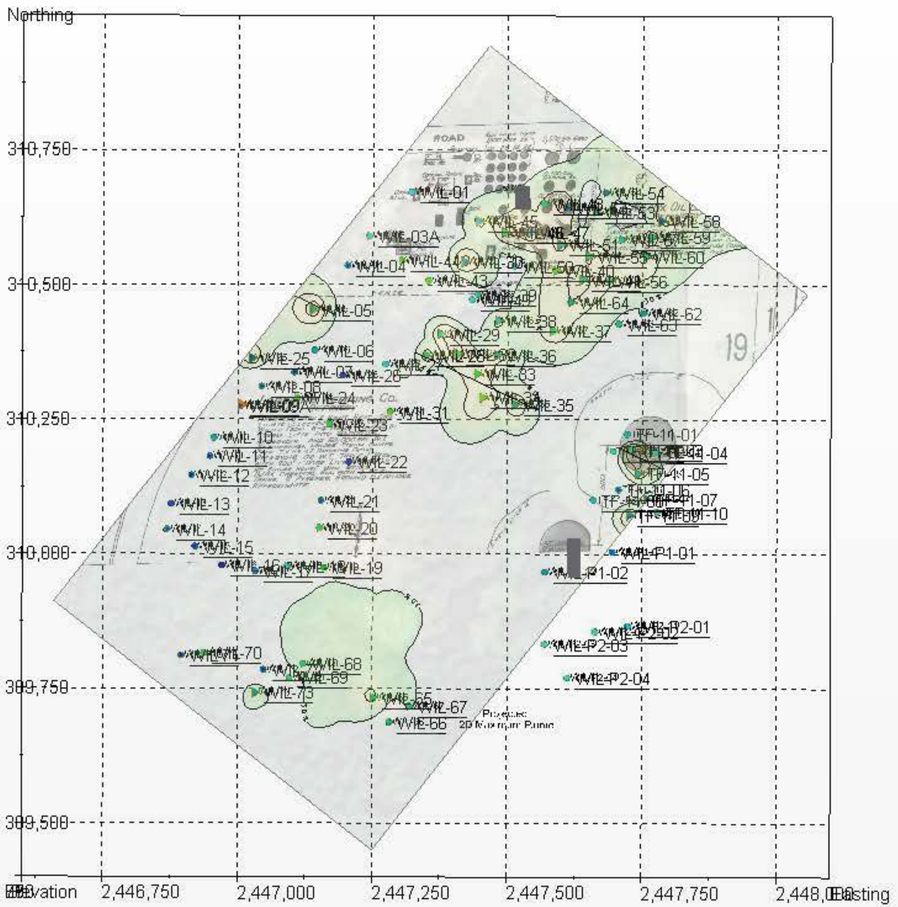
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015241

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

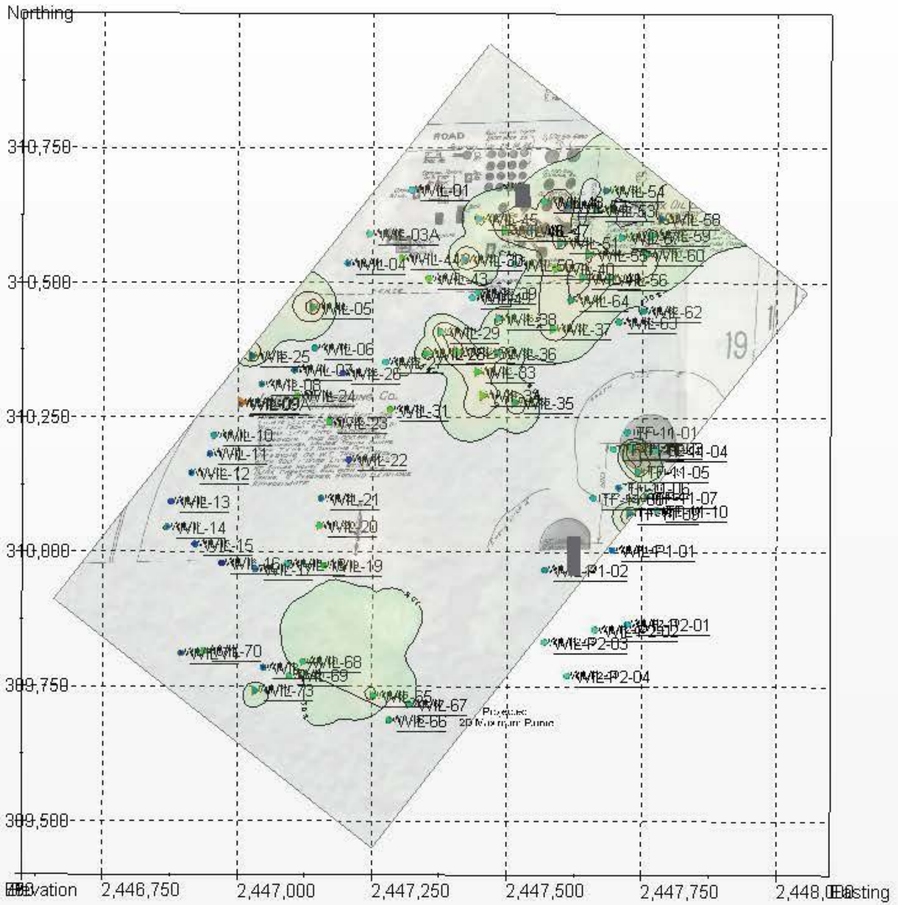
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015242

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

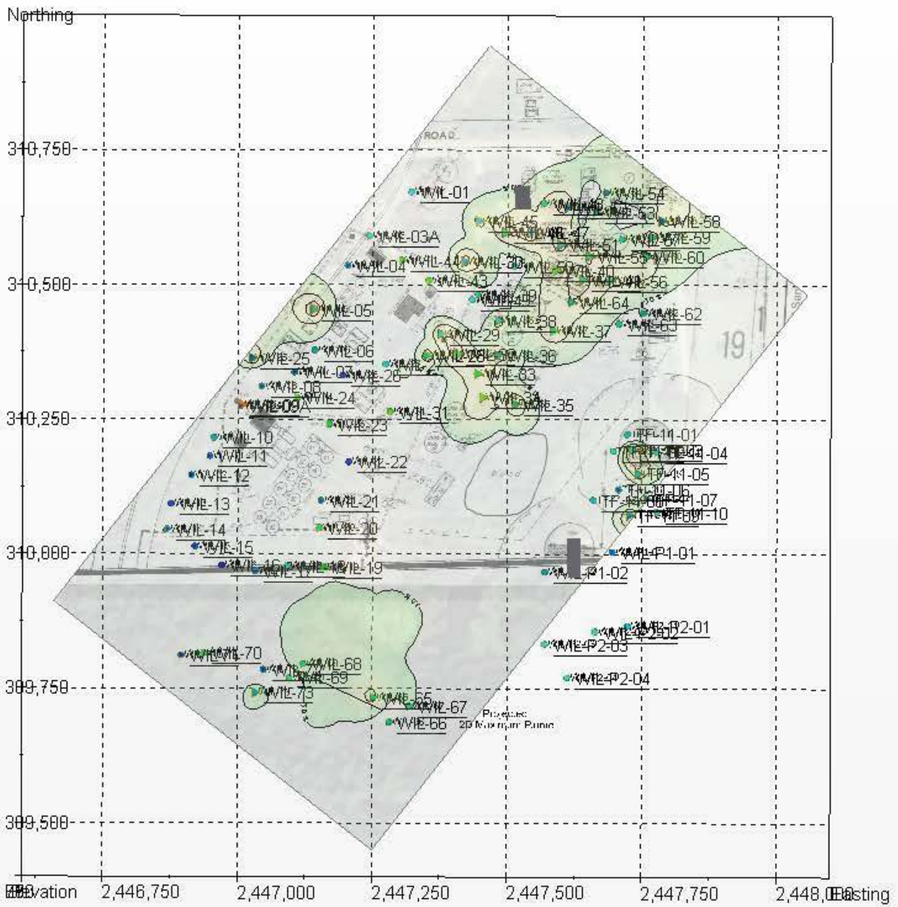
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015243

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

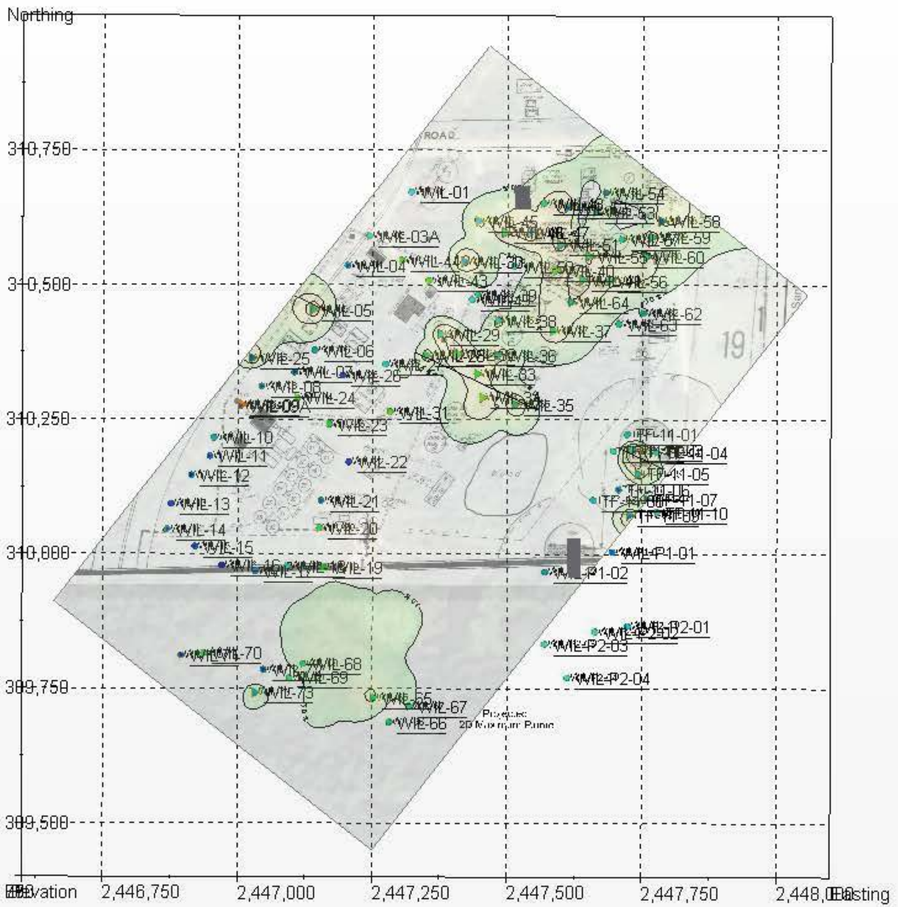
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015244

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

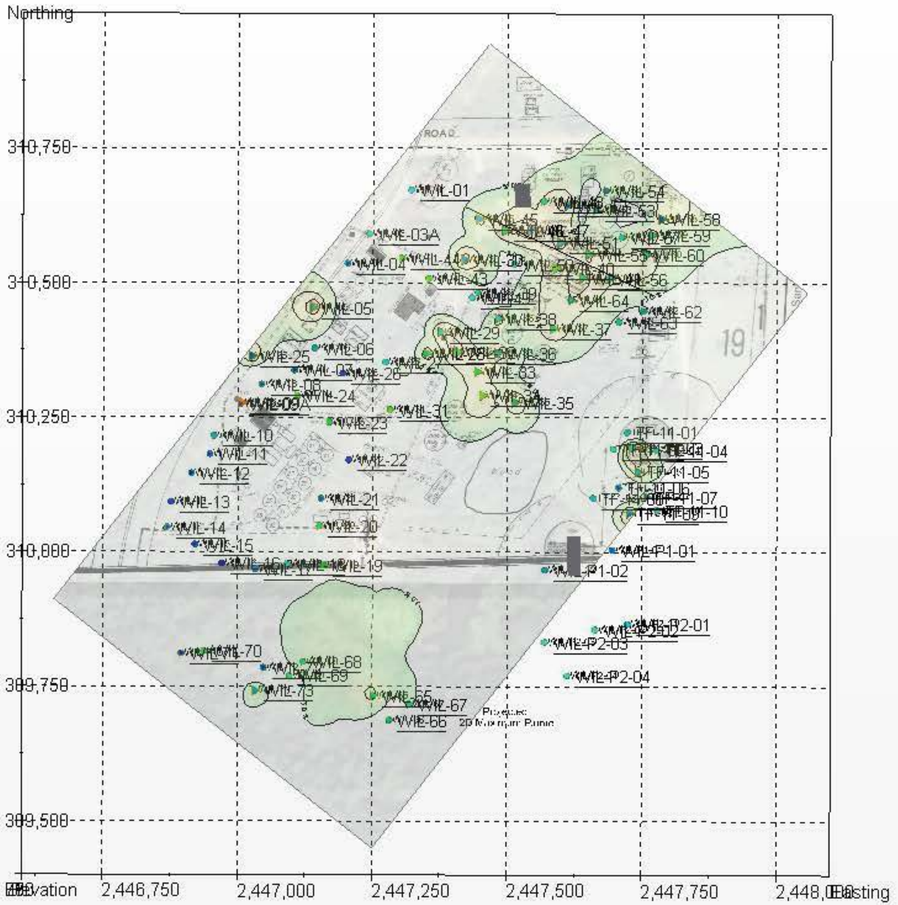
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015245

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

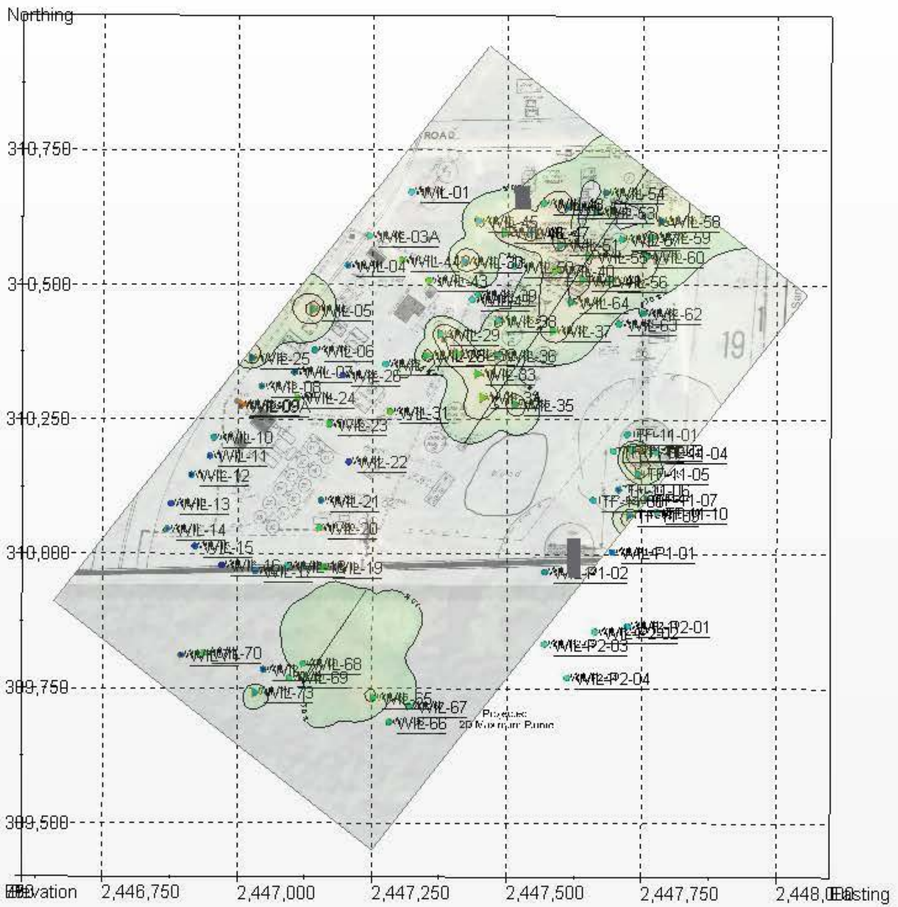
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015246

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

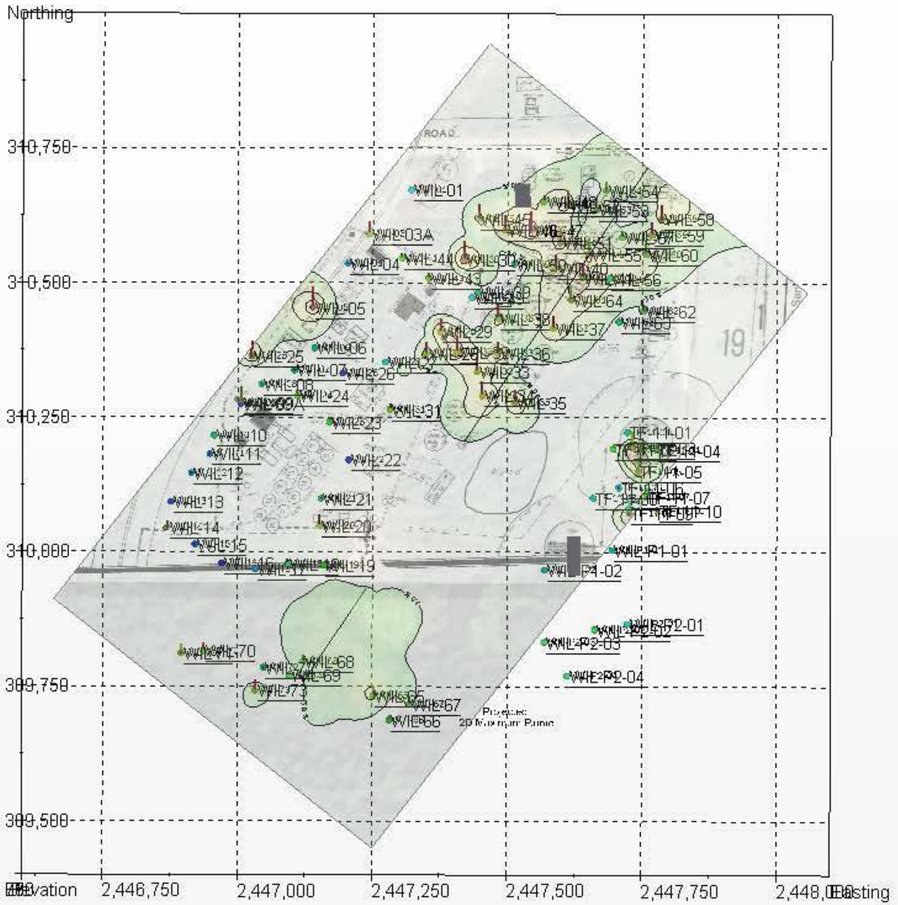
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015247

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

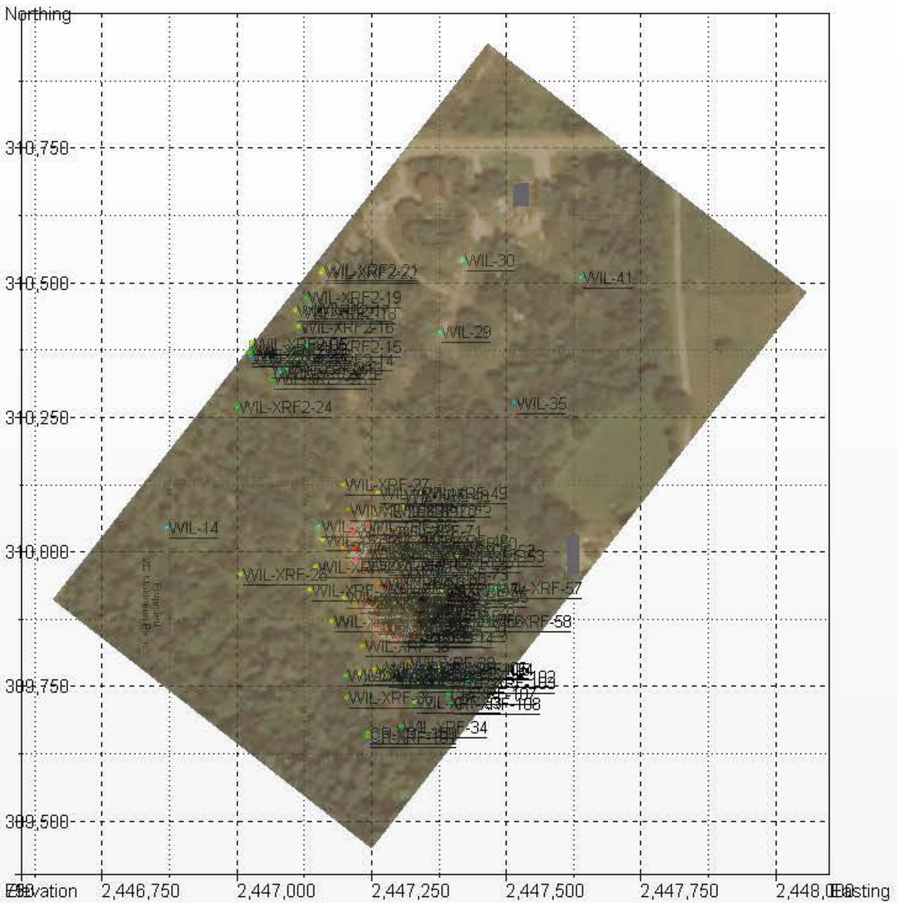
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015248

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
Lead in Soil (mg/kg) - Samples
Vertical Exaggeration = 1x



Pb
- 100,000 mg/kg
- 30,000 mg/kg
- 10,000 mg/kg
- 3,000 mg/kg
- 1,000 mg/kg
- 300 mg/kg
- 100 mg/kg
- 30 mg/kg
- 10 mg/kg
- 3 mg/kg
- 1 mg/kg

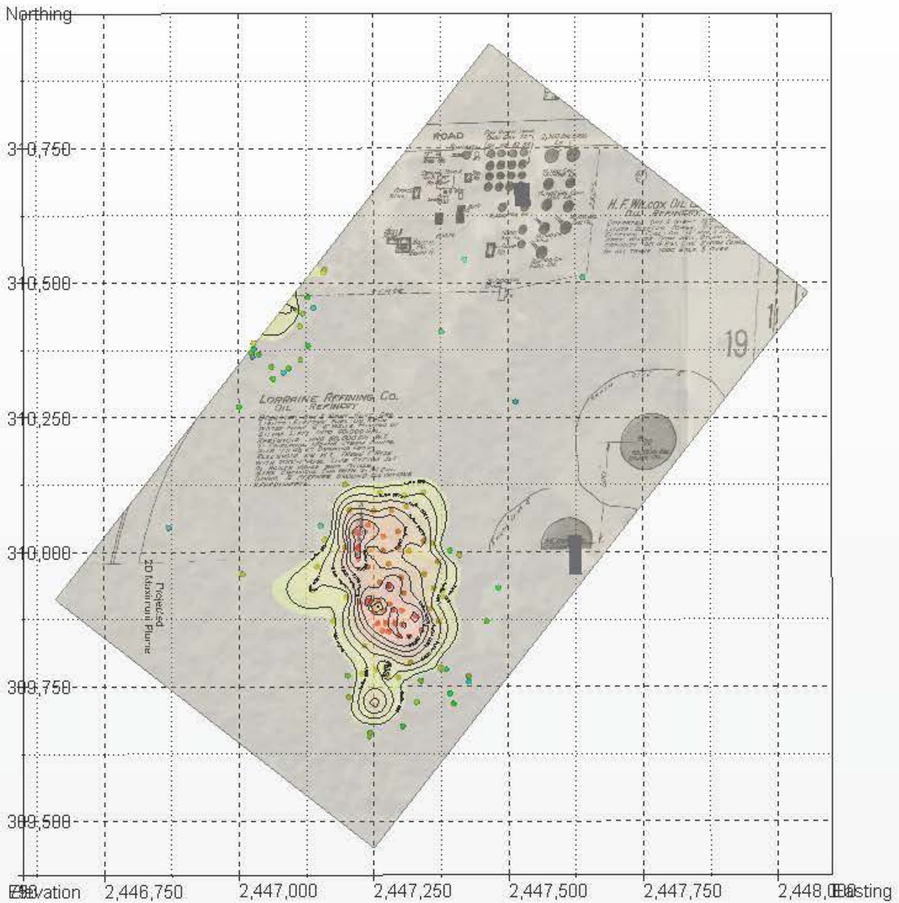
Geologic Interp.
- Overburden
- CPT Refusal

Data Visualization Completed by S2C2 Inc.

015249

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum - Lead in Soil
1923 San Born Map
Vertical Exaggeration = 1x



Pb
- 100,000 mg/kg
- 30,000 mg/kg
- 10,000 mg/kg
- 3,000 mg/kg
- 1,000 mg/kg
- 300 mg/kg
- 100 mg/kg
- 30 mg/kg
- 10 mg/kg
- 3 mg/kg
- 1 mg/kg

Geologic Interp.
- Overburden
- CPT Refusal

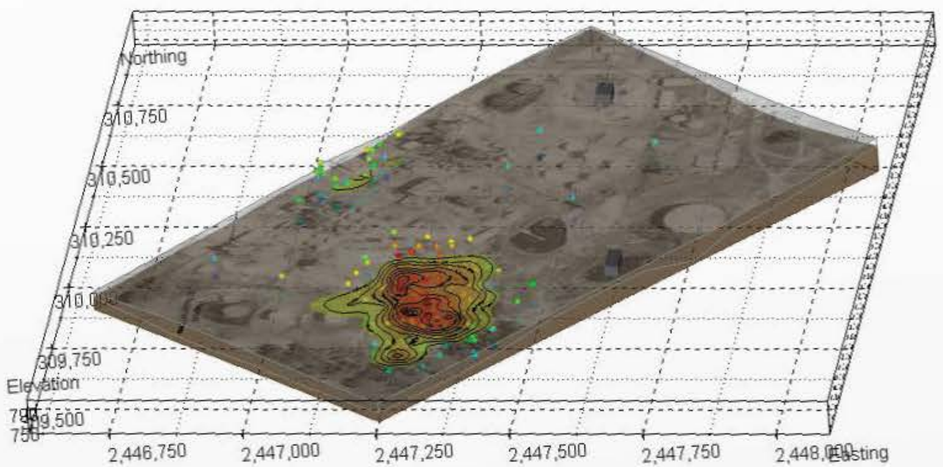
Pb above 400 mg/kg

Data Visualization Completed by S2C2 Inc.

015250

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum - Lead in Soil
1956 Aerial
Vertical Exaggeration = 1x



Pb
100,000 mg/kg
30,000 mg/kg
10,000 mg/kg
3,000 mg/kg
1,000 mg/kg
300 mg/kg
100 mg/kg
30 mg/kg
10 mg/kg
3 mg/kg

Geologic Interp.
Overburden
CPT Refusal

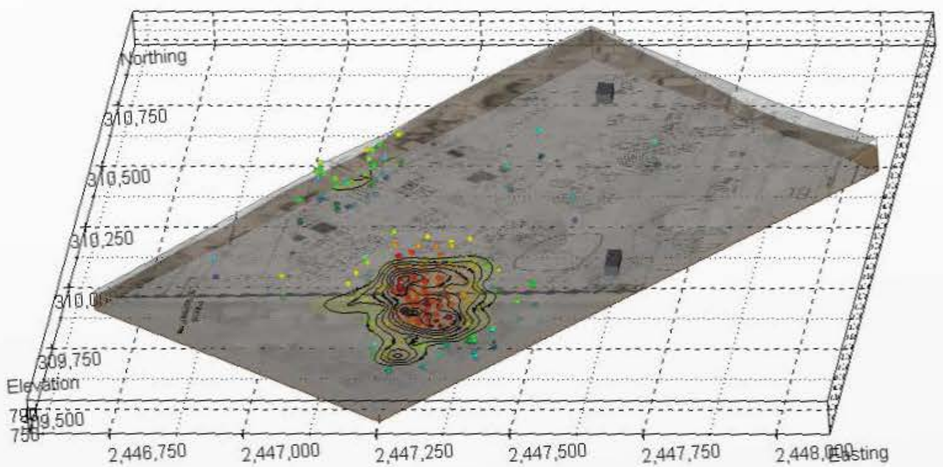
Pb above 400 mg/kg

Data Visualization Completed by S2C2 Inc.

015251

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum - Lead in Soil
1956 Aerial & 1961 San Born map
Vertical Exaggeration = 1x



Pb
100,000 mg/kg
30,000 mg/kg
10,000 mg/kg
3,000 mg/kg
1,000 mg/kg
300 mg/kg
100 mg/kg
30 mg/kg
10 mg/kg
3 mg/kg

Geologic Interp.
Overburden
CPT Refusal

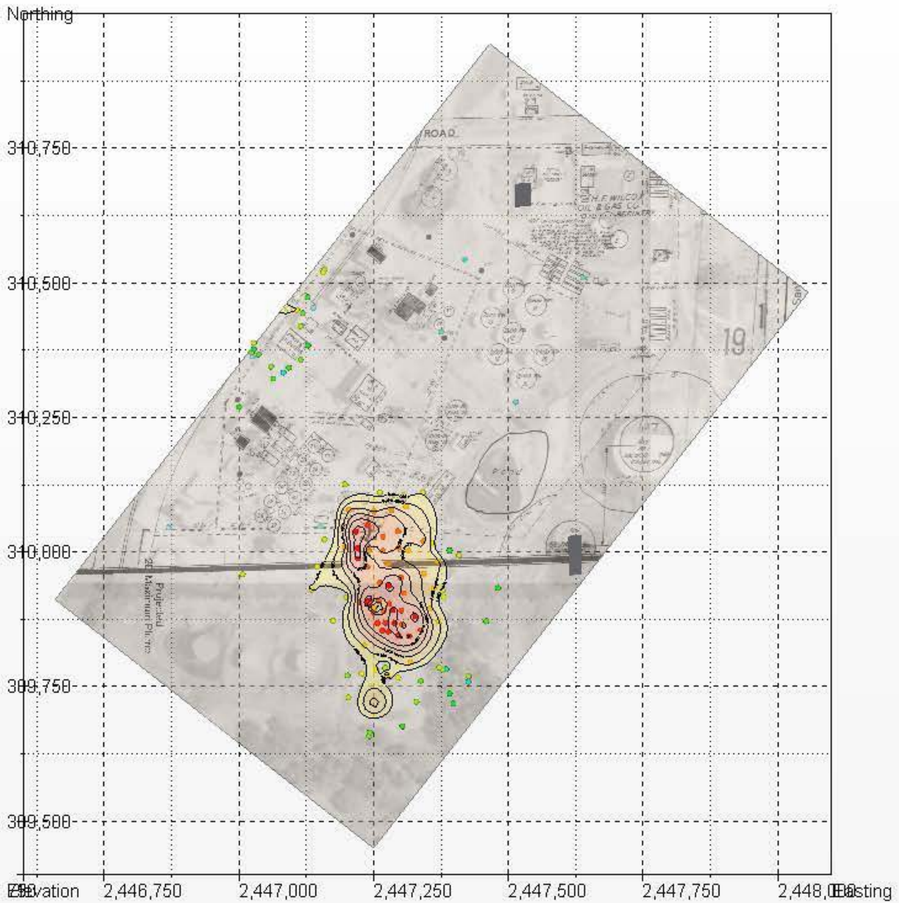
Pb above 400 mg/kg

Data Visualization Completed by S2C2 Inc.

015252

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum - Lead in Soil
1956 Aerial & 1961 San Born map
Vertical Exaggeration = 1x



Pb
100,000 mg/kg
30,000 mg/kg
10,000 mg/kg
3,000 mg/kg
1,000 mg/kg
300 mg/kg
100 mg/kg
30 mg/kg
10 mg/kg
3 mg/kg
1 mg/kg

Geologic Interp.
Overburden
CPT Refusal

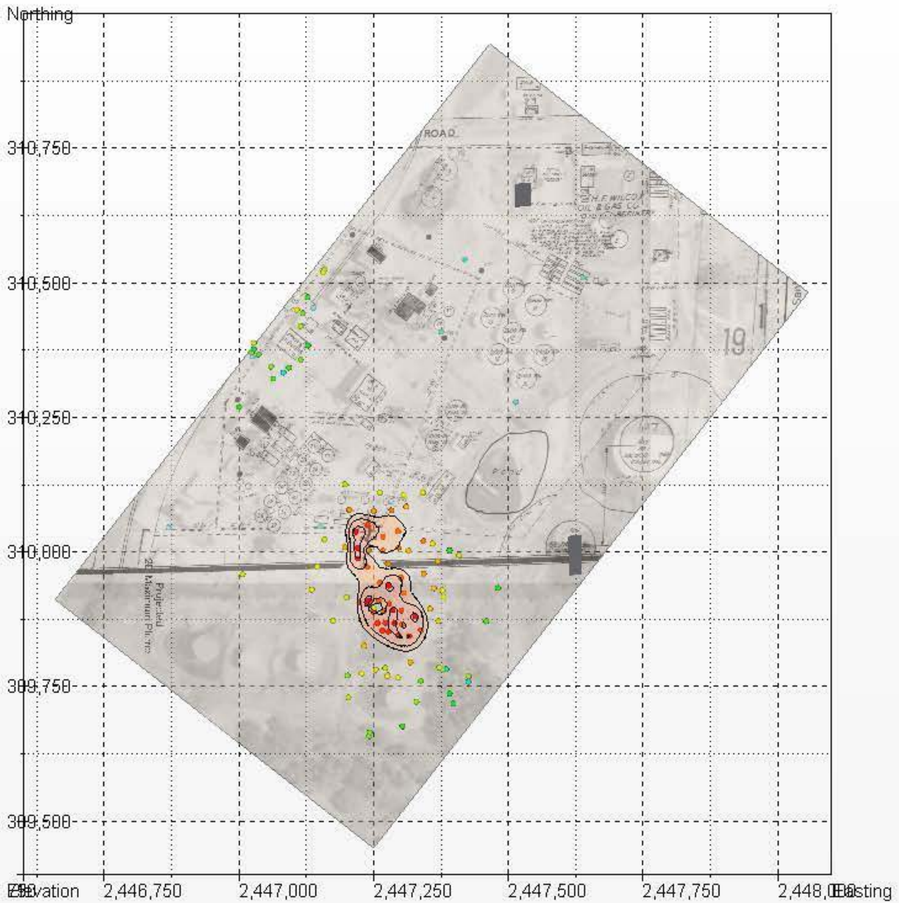
Pb above 1,000 mg/kg

Data Visualization Completed by S2C2 Inc.

015253

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Wilcox Refinery Grid
2D Maximum - Lead in Soil
1956 Aerial & 1961 San Born map
Vertical Exaggeration = 1x



Pb
100,000 mg/kg
30,000 mg/kg
10,000 mg/kg
3,000 mg/kg
1,000 mg/kg
300 mg/kg
100 mg/kg
30 mg/kg
10 mg/kg
3 mg/kg
1 mg/kg

Geologic Interp.
Overburden
CPT Refusal

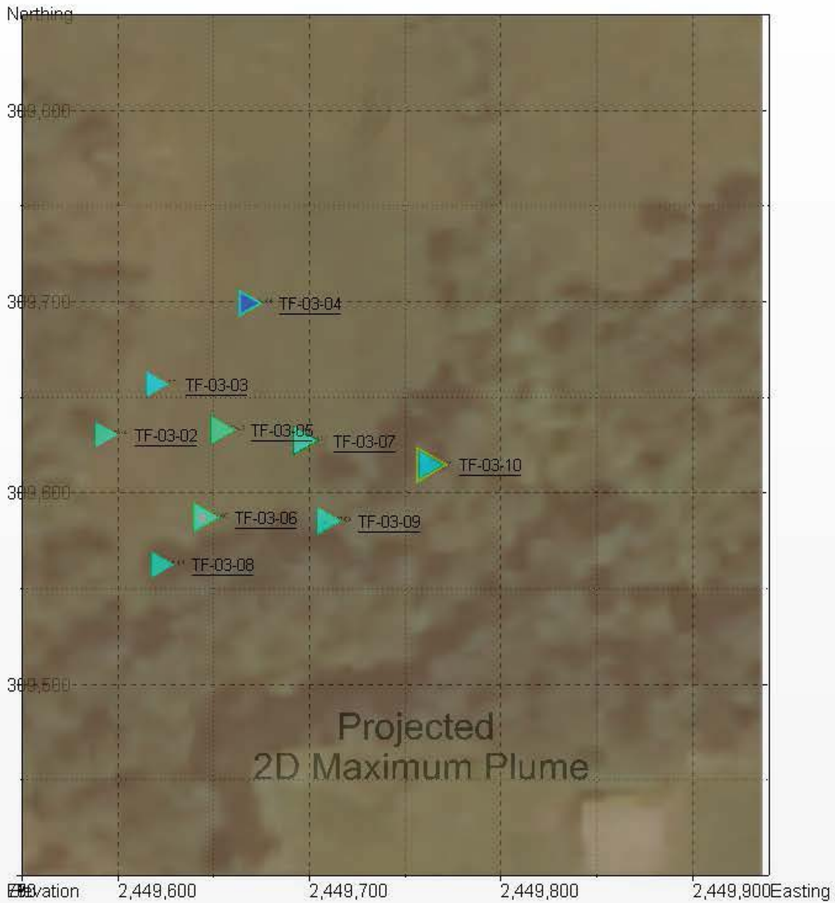
Pb above 10,000 mg/kg

Data Visualization Completed by S2C2 Inc.

015254

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
ROST Borings
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

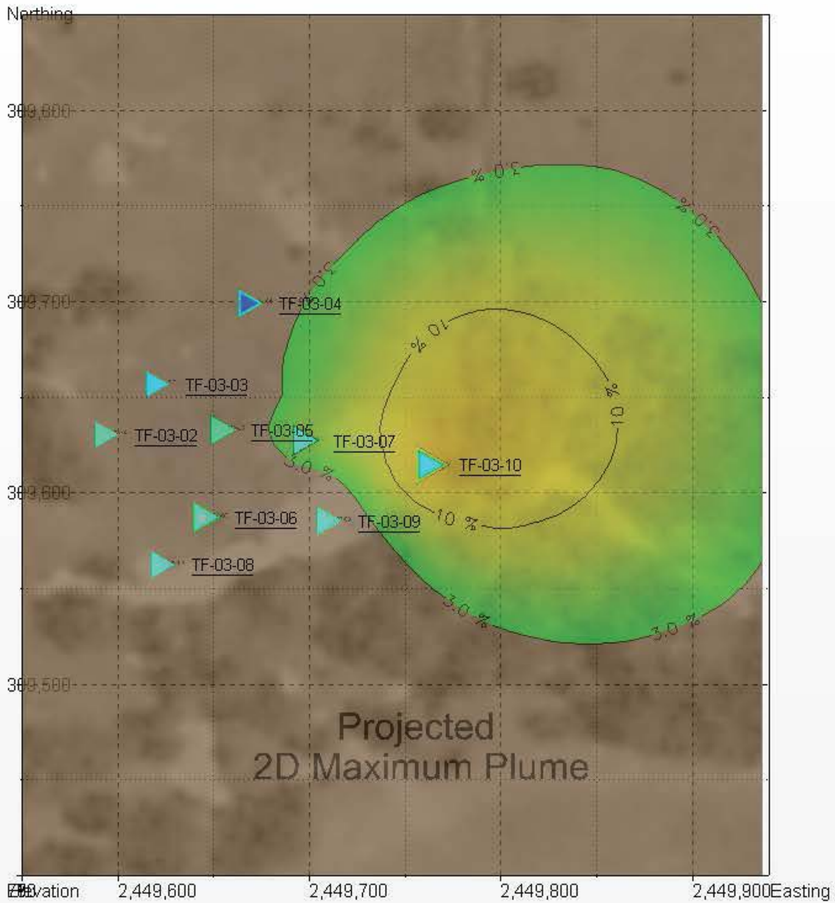
Geologic Interp.
Overburden
CPT Refusal

Data Visualization Completed by S2C2 Inc.

015255

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
2D Maximum Fluorescence
1956 Aerial
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

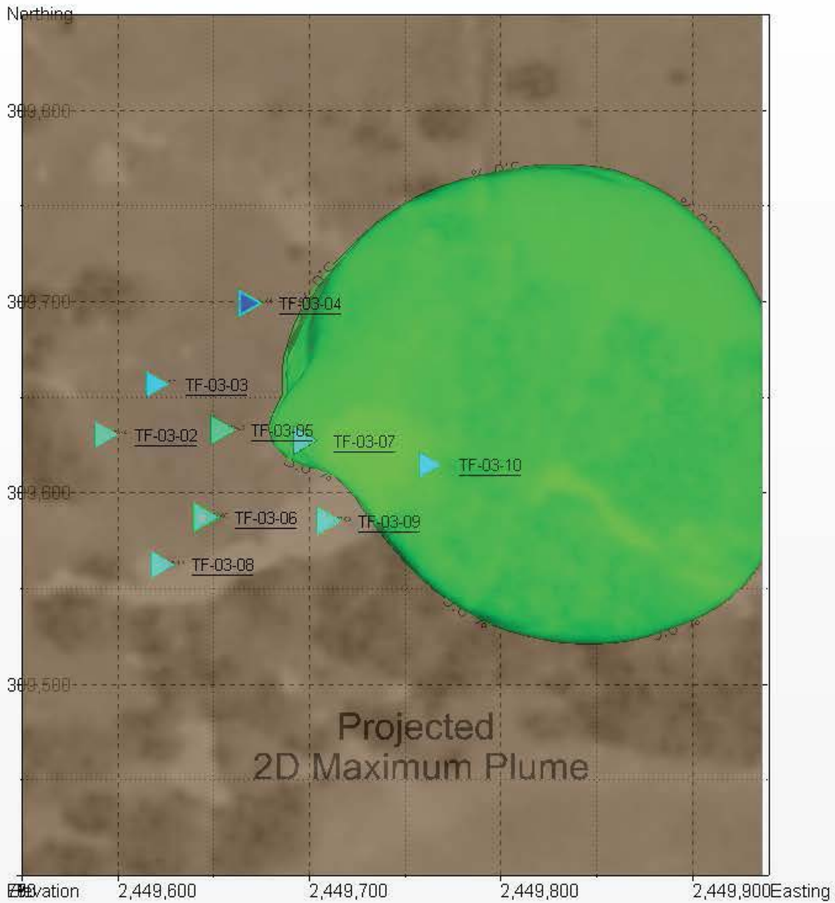
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015256

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

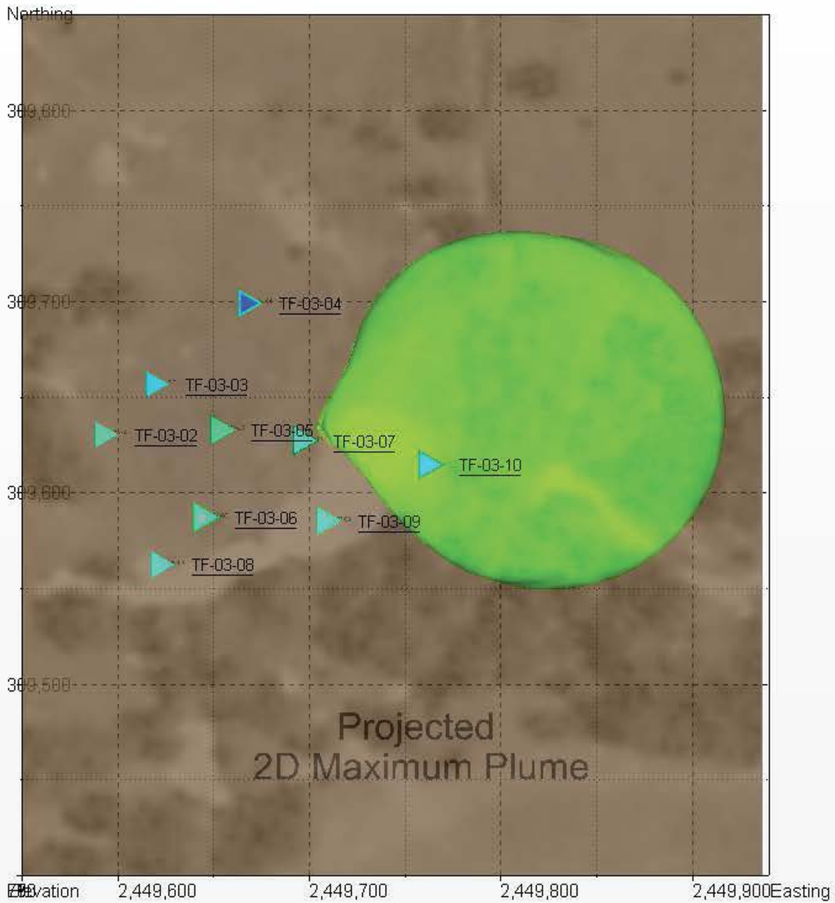
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015257

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

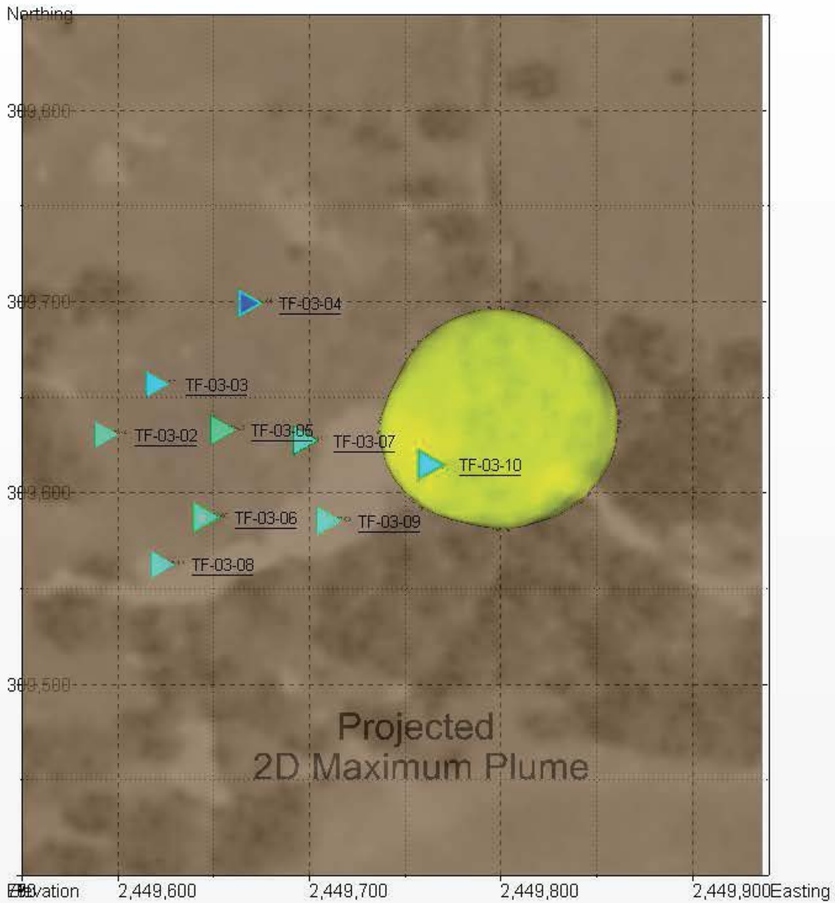
Fluorescence above 5.0 %

Data Visualization Completed by S2C2 Inc.

015258

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

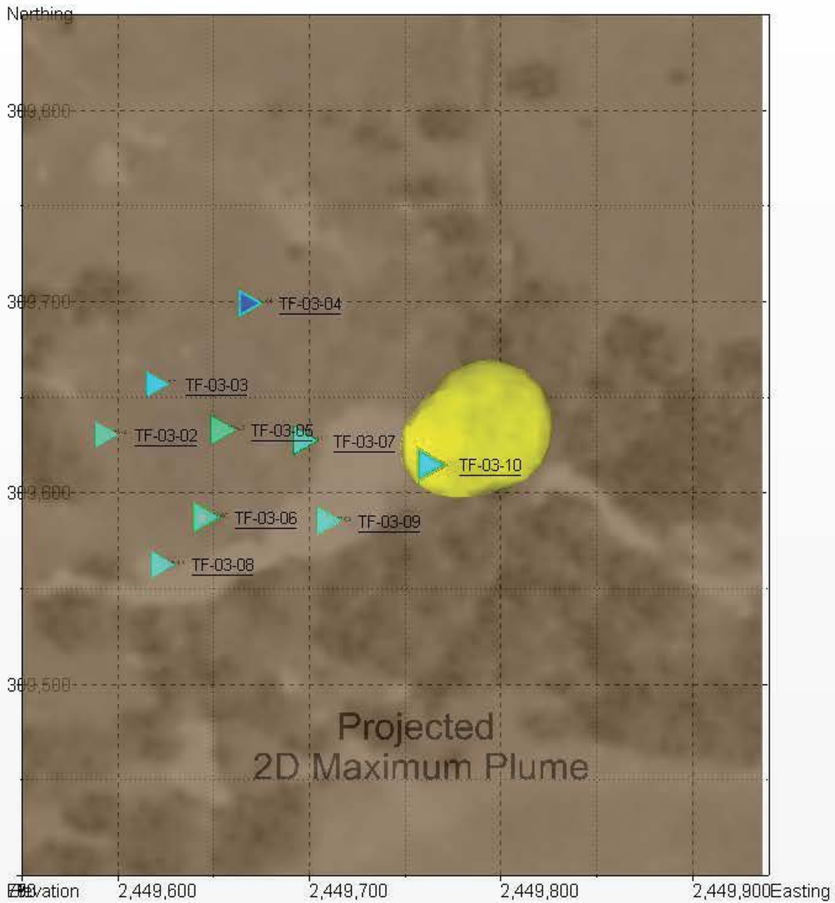
Fluorescence above 10 %

Data Visualization Completed by S2C2 Inc.

015259

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

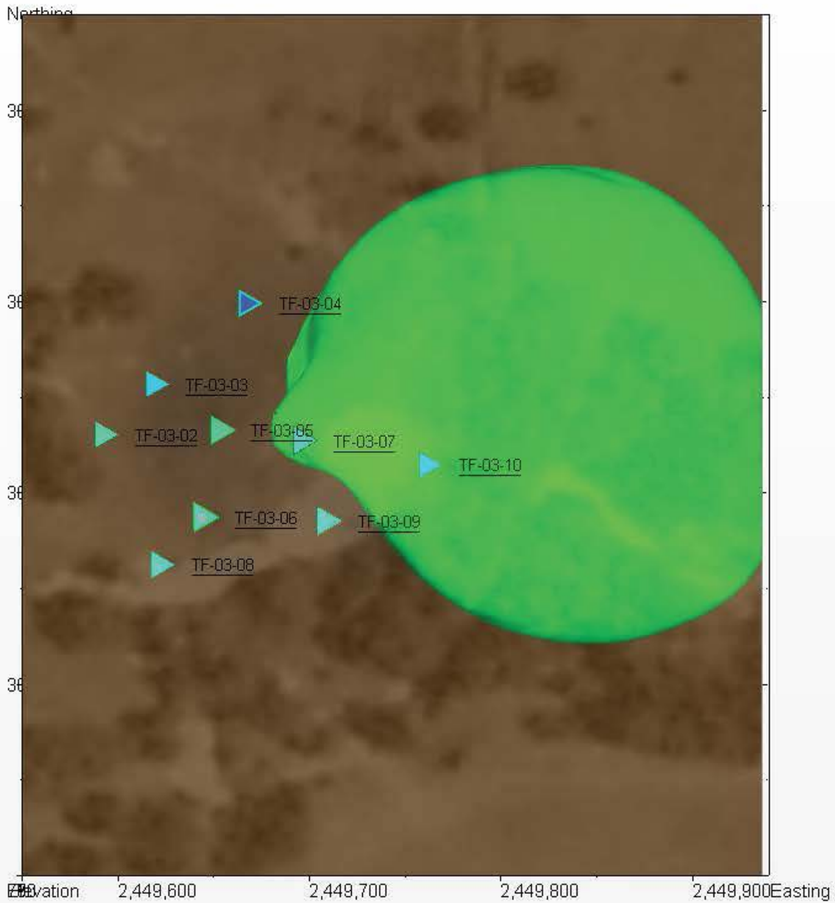
Fluorescence above 15 %

Data Visualization Completed by S2C2 Inc.

015260

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

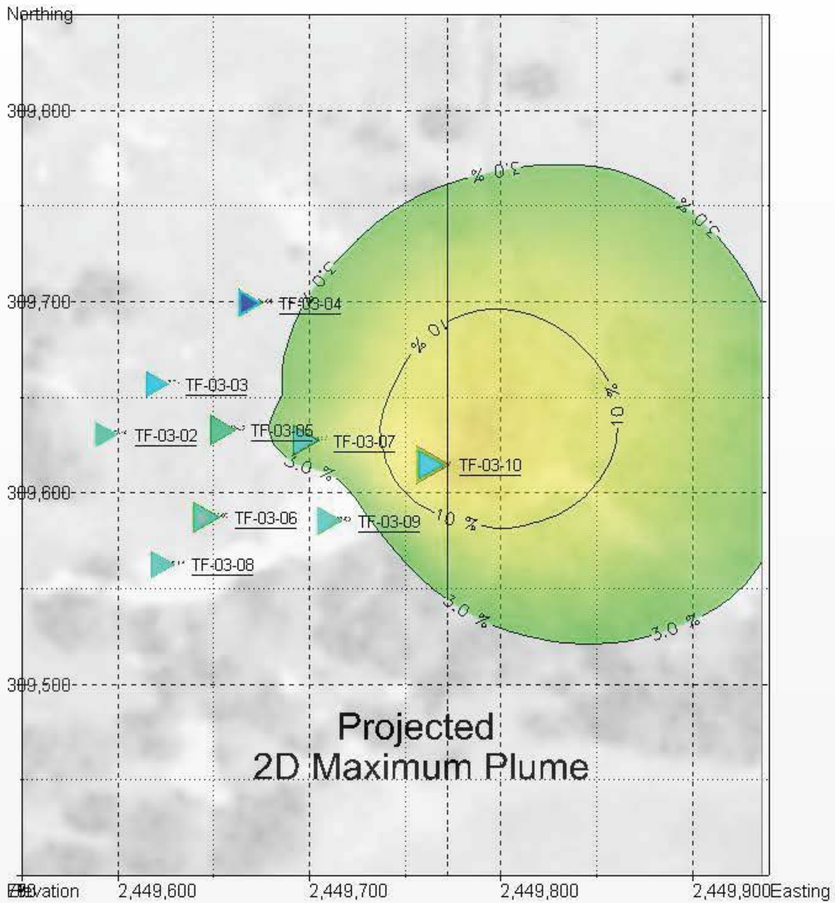
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015261

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

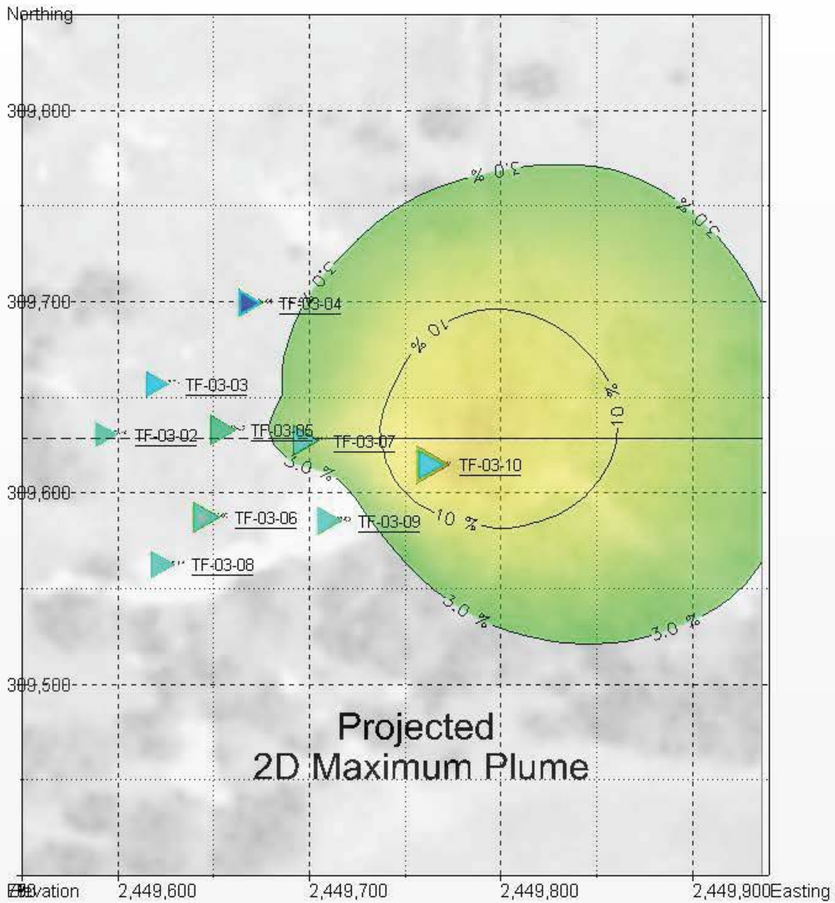
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015262

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 % RE
300 % RE
100 % RE
30 % RE
10 % RE
3 % RE
1 % RE
0.3 % RE
0.1 % RE

Geologic Interp.
Overburden
CPT Refusal

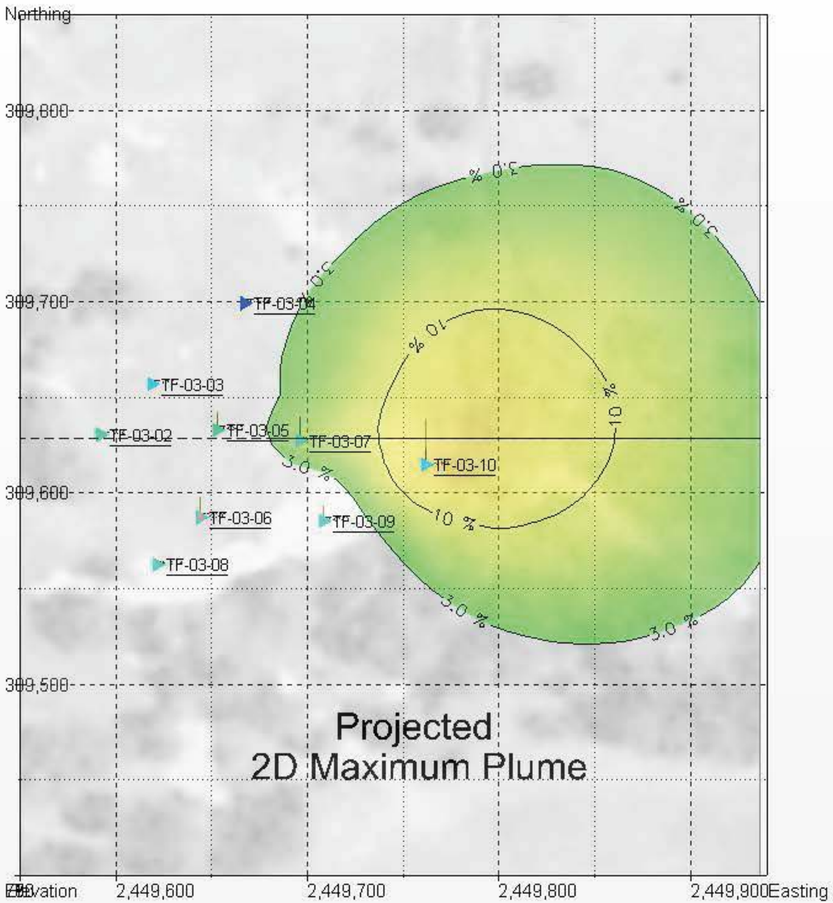
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015263

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 3 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
- 500 % RE
- 300 % RE
- 100 % RE
- 30 % RE
- 10 % RE
- 3 % RE
- 1 % RE
- 0.3 % RE
- 0.1 % RE

Geologic Interp.
- Overburden
- CPT Refusal

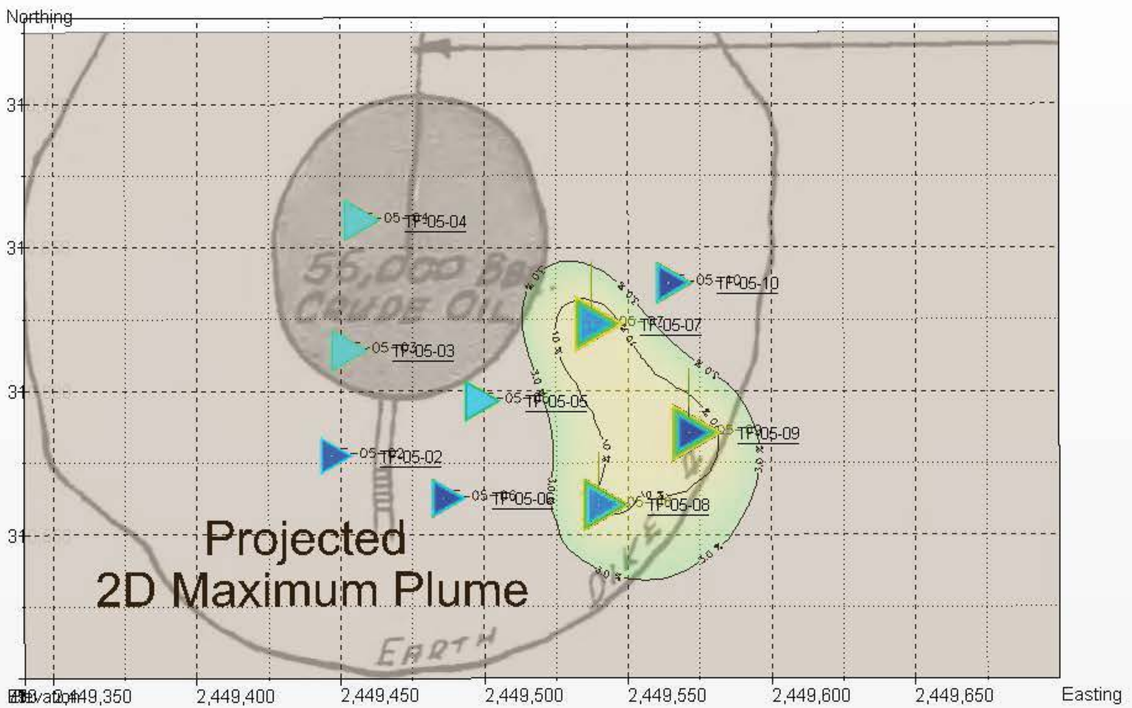
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015264

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
2D Maximum Fluorescence
1923 San Born Map
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

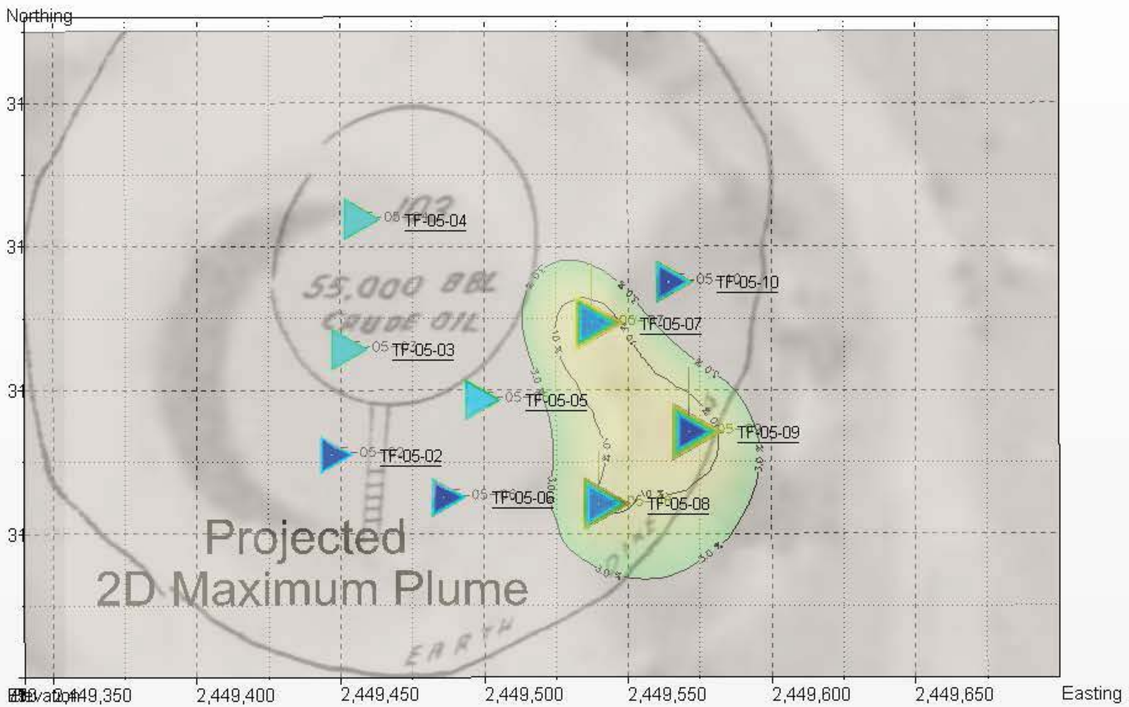
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015265

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
2D Maximum Fluorescence
1956 Aerial and 1961 San Born
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

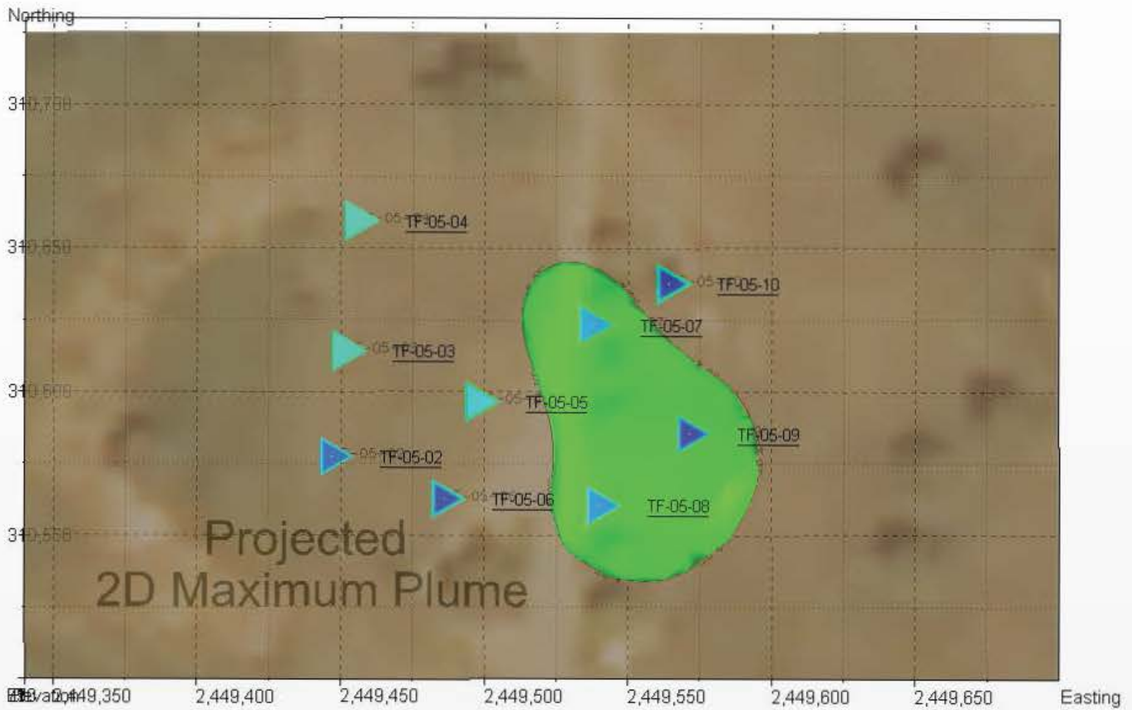
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015266

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

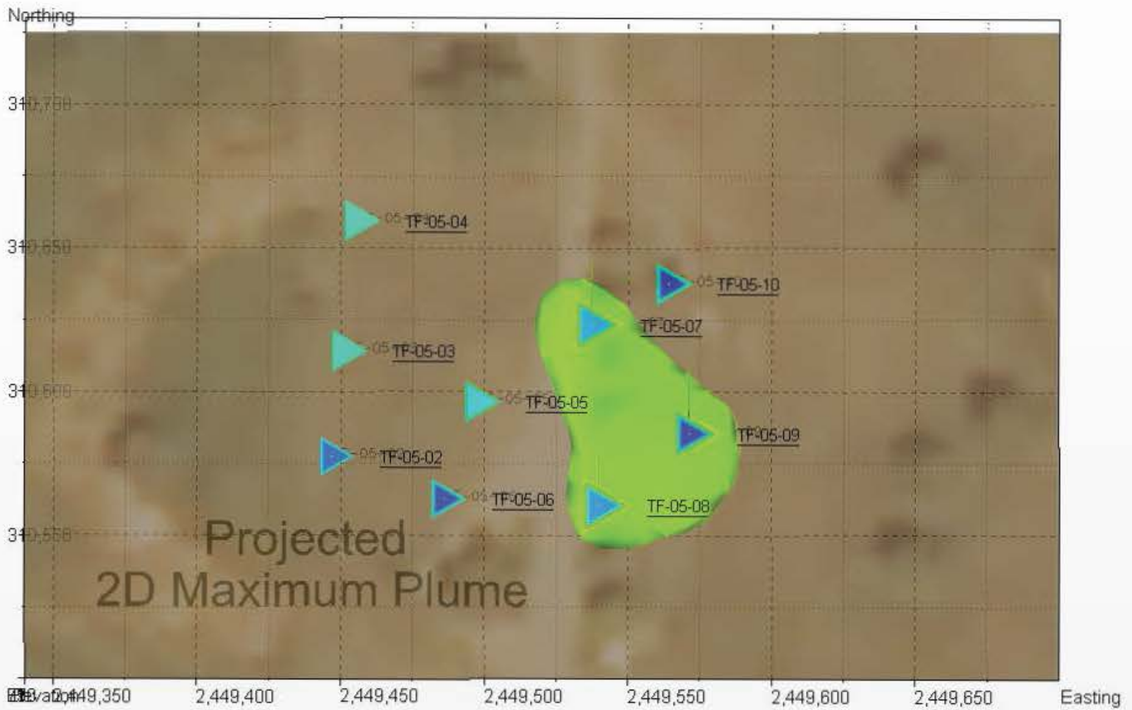
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015267

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

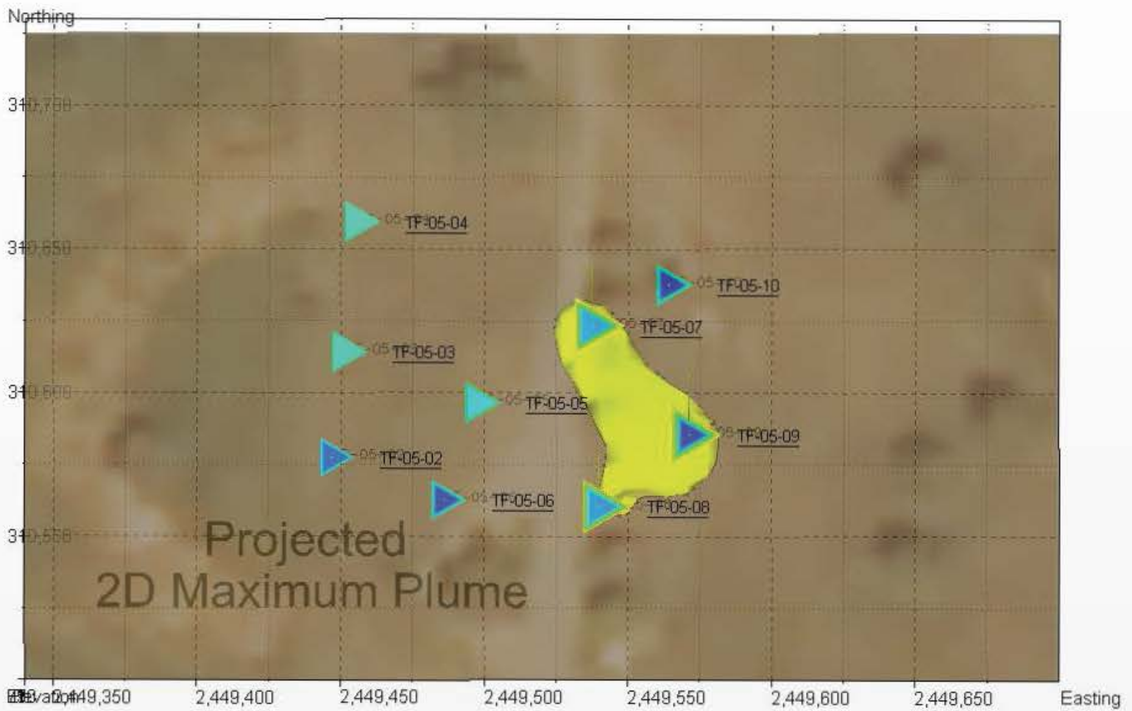
Fluorescence above 5.0 %

Data Visualization Completed by S2C2 Inc.

015268

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

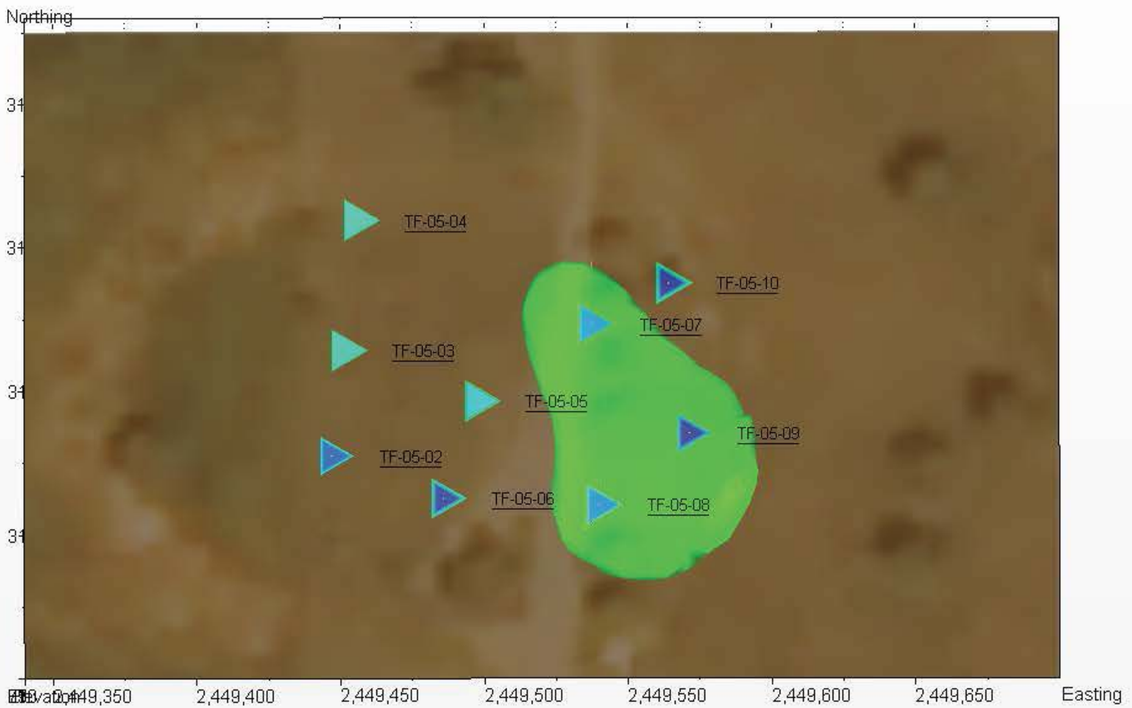
Fluorescence above 10 %

Data Visualization Completed by S2C2 Inc.

015269

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

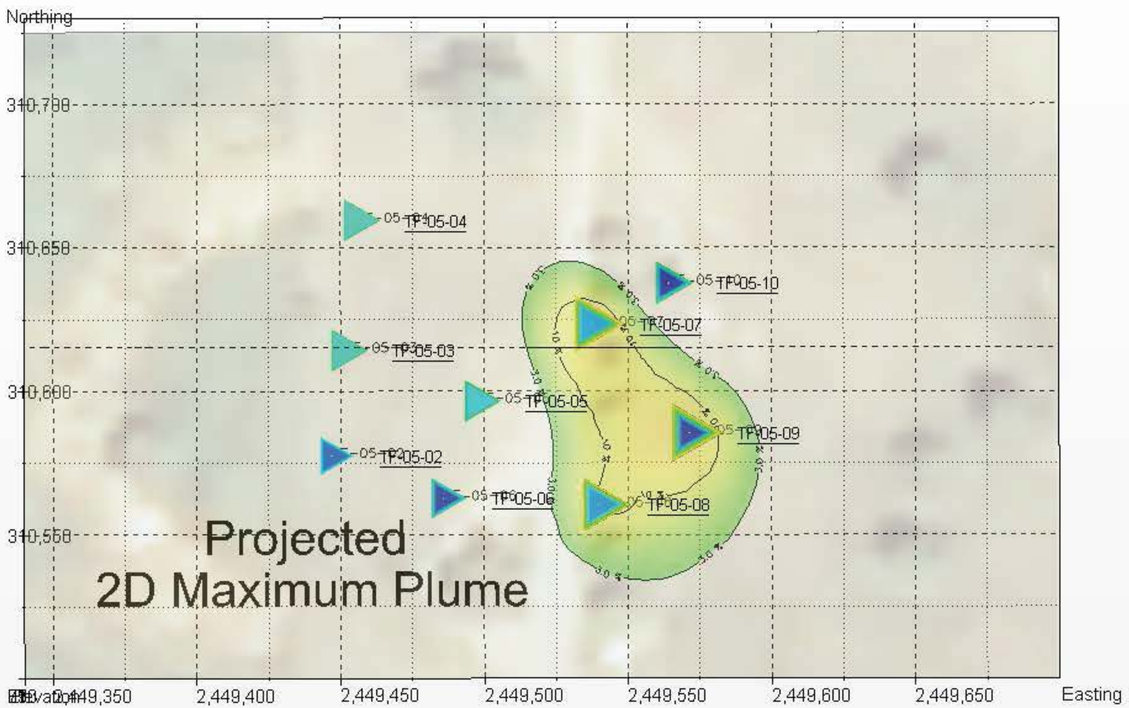
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015270

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

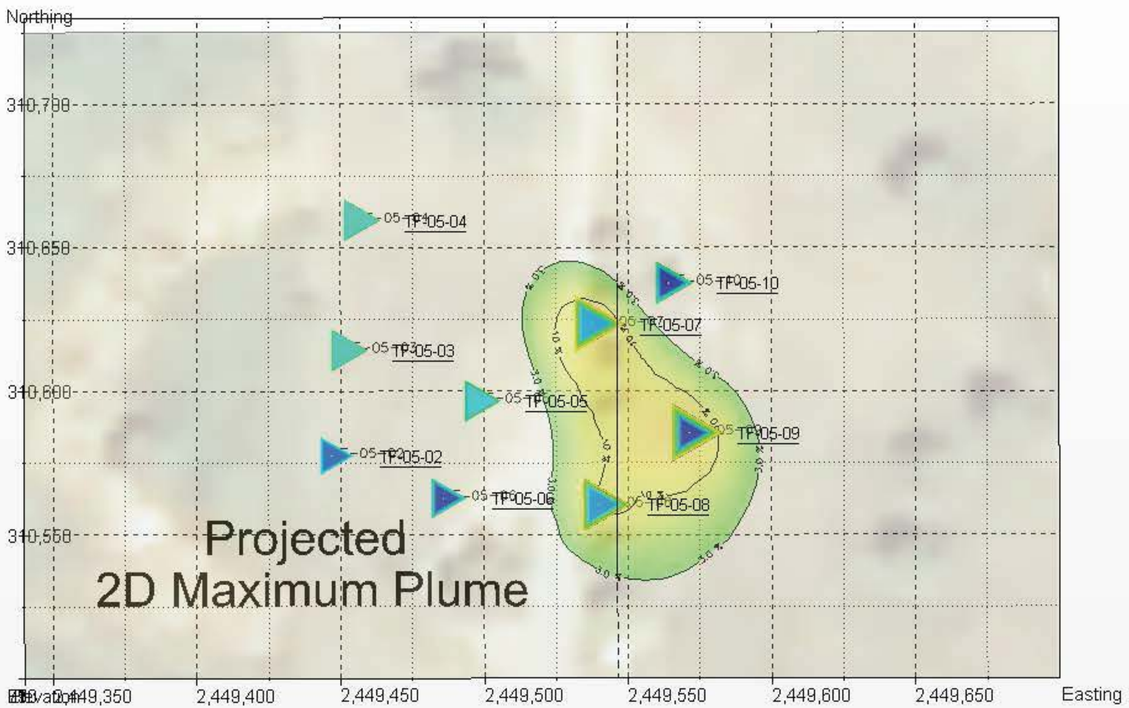
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015271

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

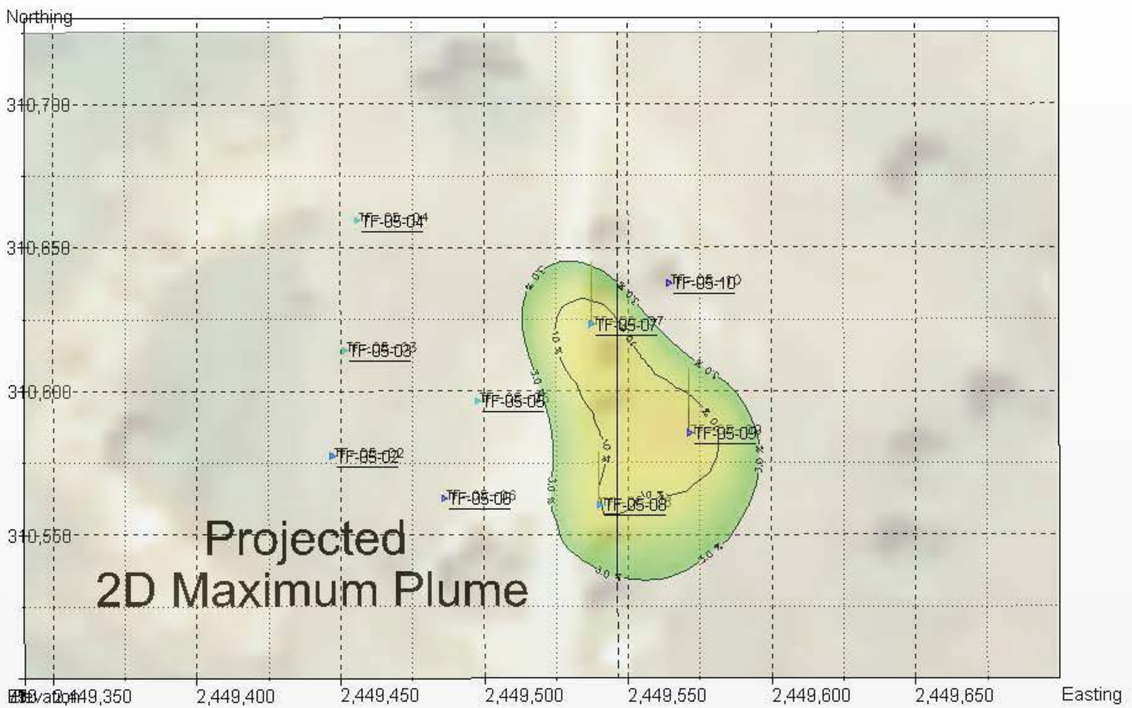
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015272

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 5 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 2x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

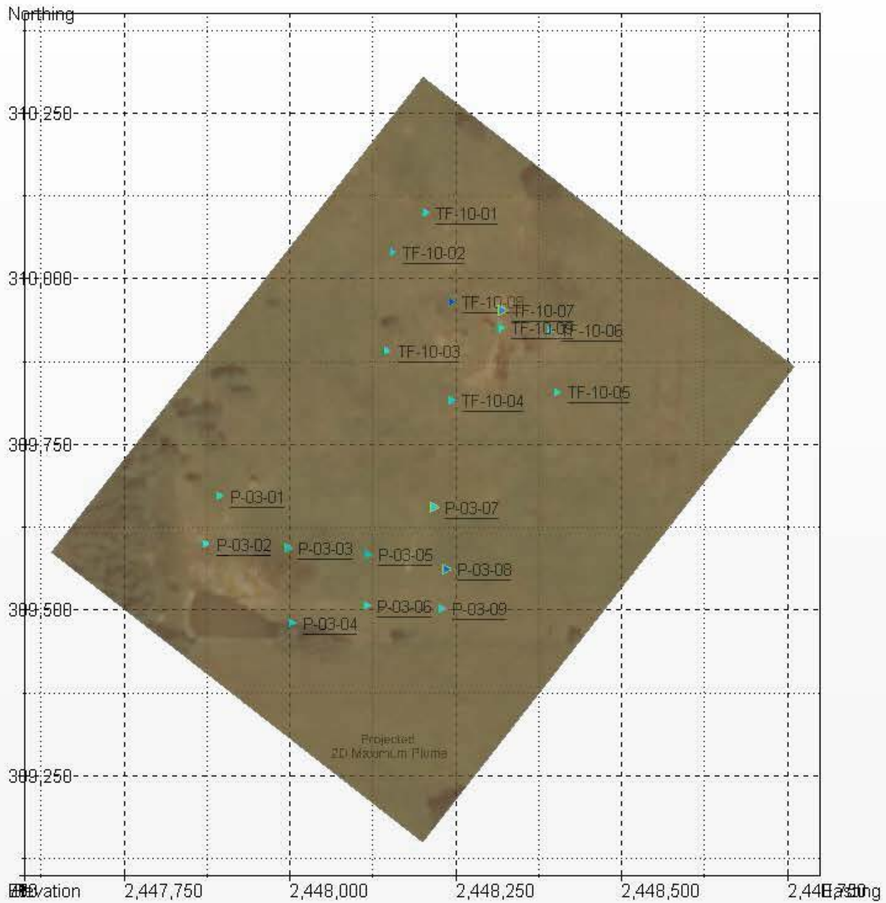
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015273

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
ROST Borings
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

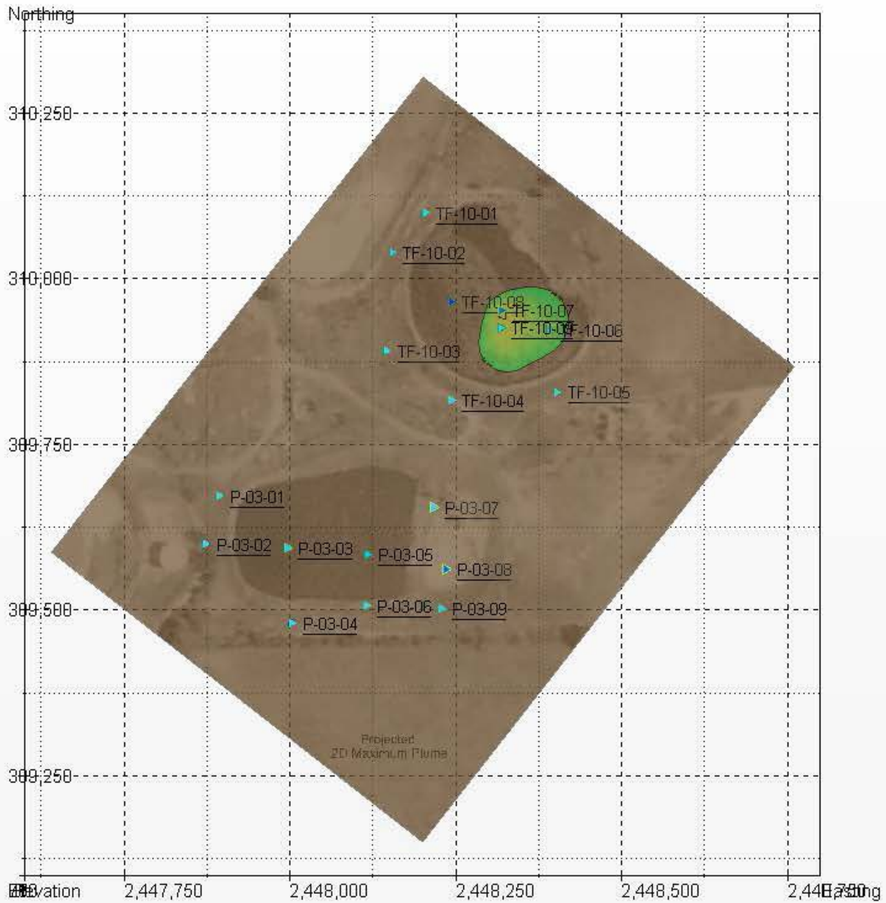
Geologic Interp.
Overburden
CPT Refusal

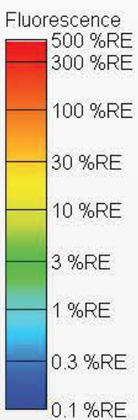
Data Visualization Completed by S2C2 Inc.

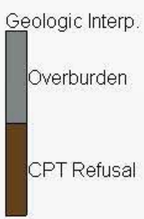
015274

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
2D Maximum Fluorescence
1956 Aerial
Vertical Exaggeration = 5x







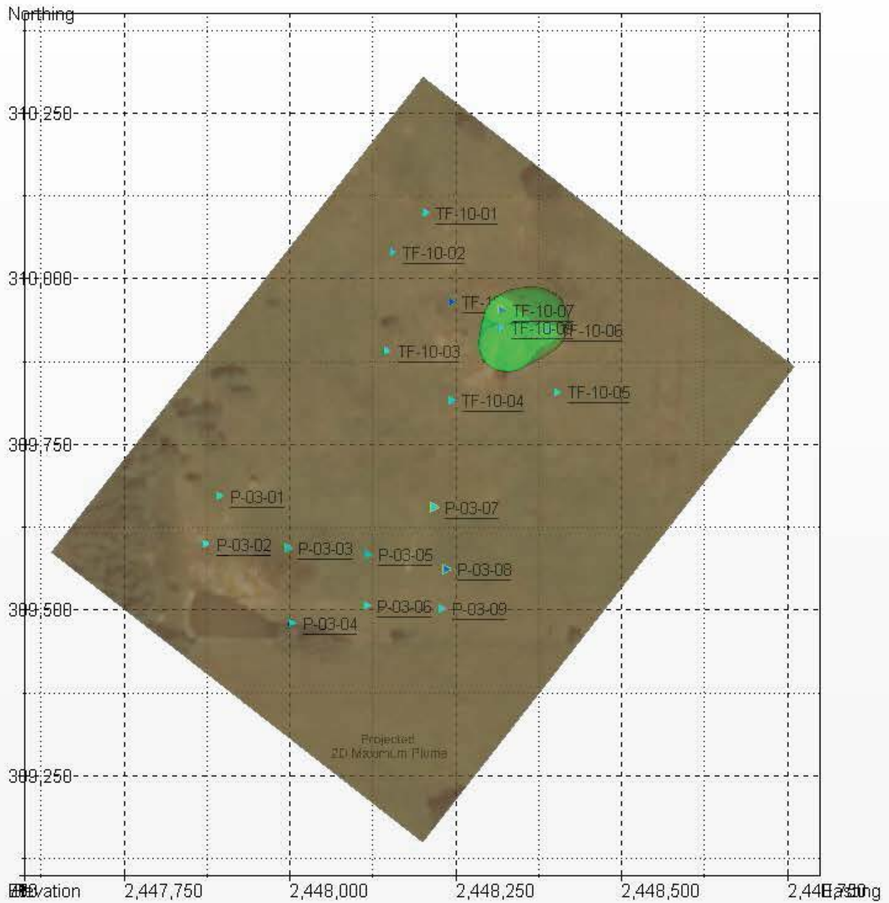
Fluorescence above 3.0 %RE

Data Visualization Completed by S2C2 Inc.

015275

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

Geologic Interp.
Overburden
CPT Refusal

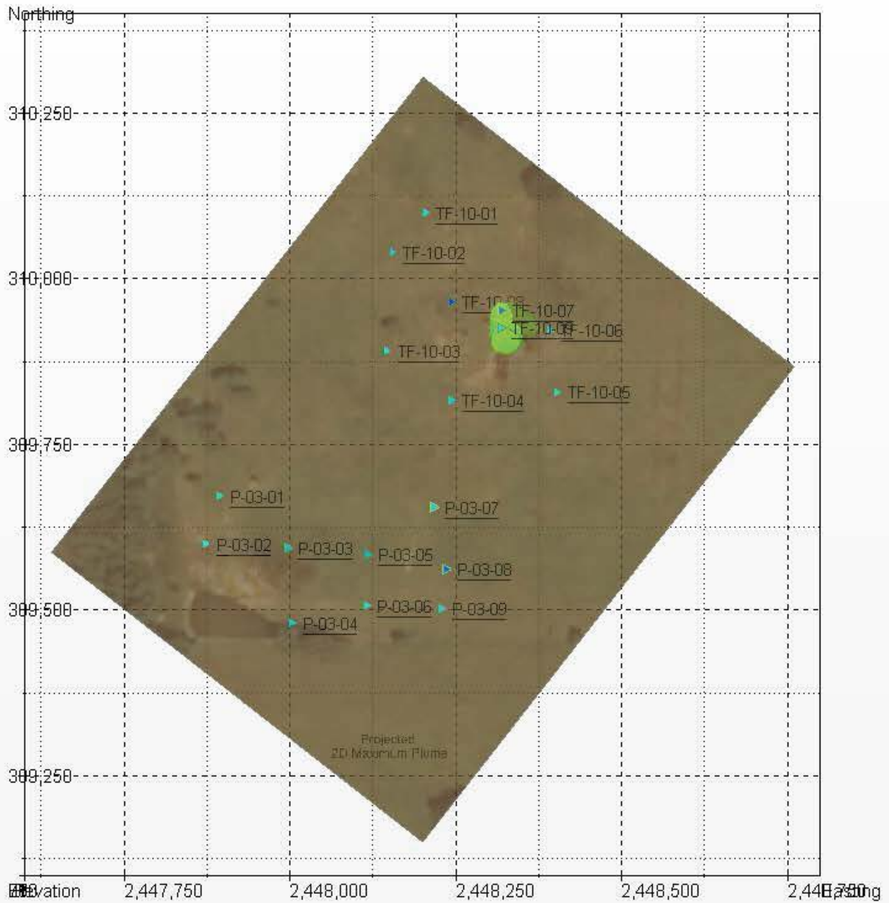
Fluorescence above 3.0 %RE

Data Visualization Completed by S2C2 Inc.

015276

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

Geologic Interp.
Overburden
CPT Refusal

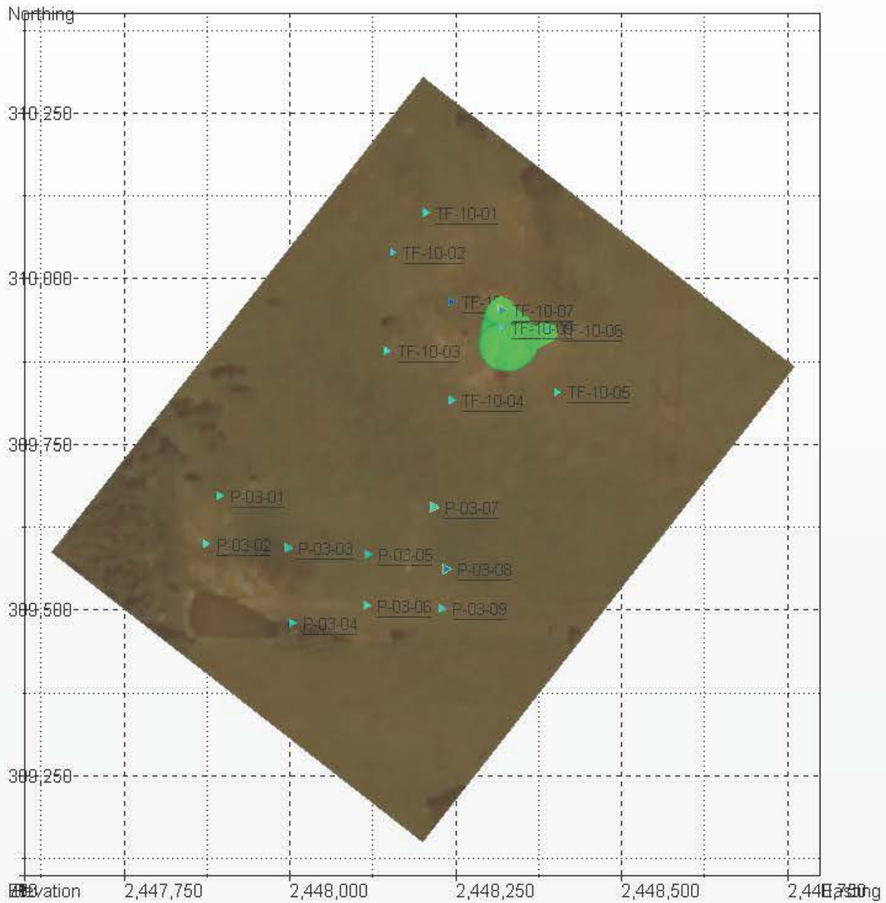
Fluorescence above 5.0 %RE

Data Visualization Completed by S2C2 Inc.

015277

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

Geologic Interp.
Overburden
CPT Refusal

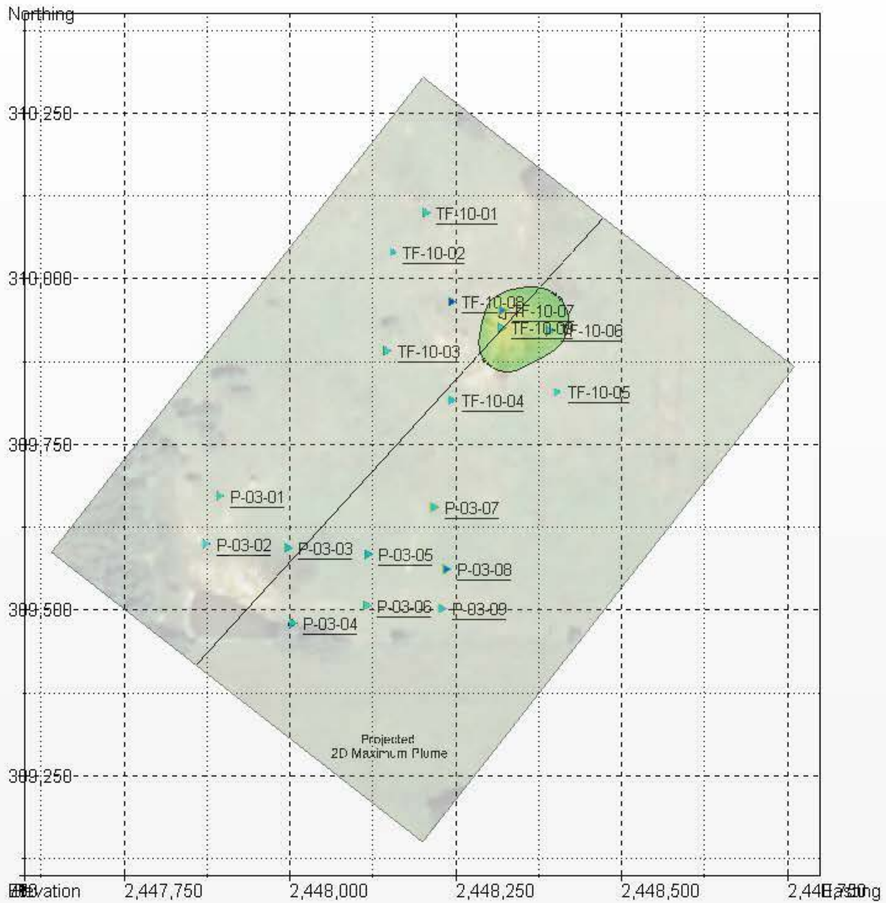
Fluorescence above 3.0 %RE

Data Visualization Completed by S2C2 Inc.

015278

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

Geologic Interp.
Overburden
CPT Refusal

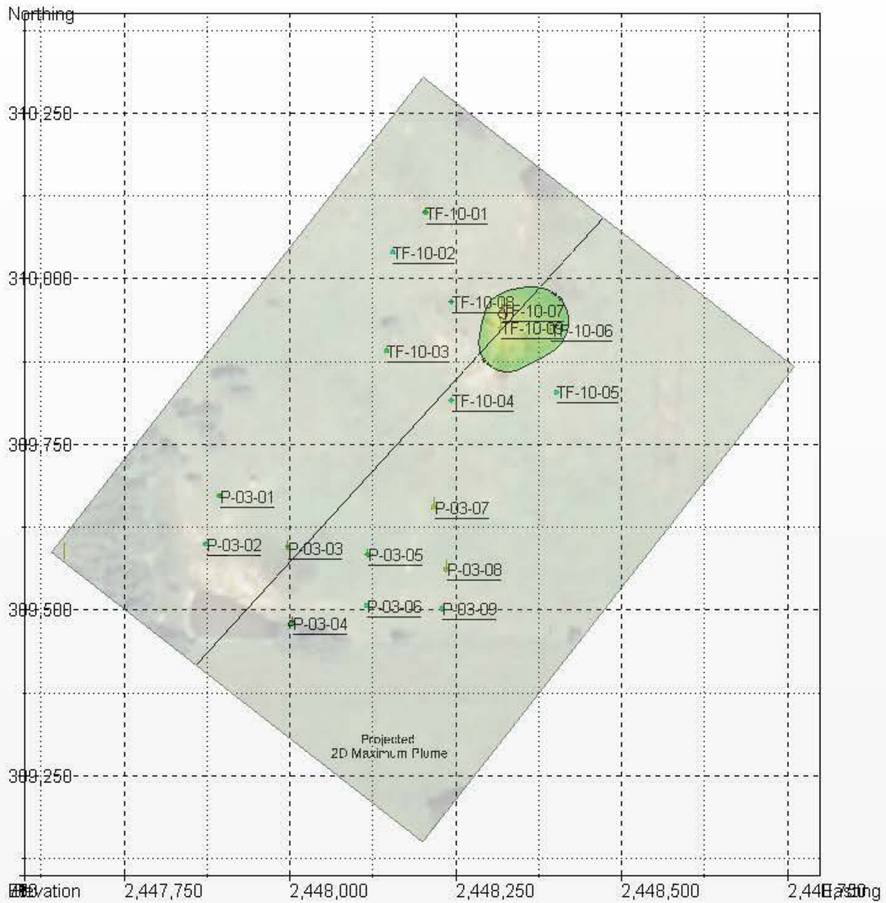
Fluorescence above 3.0 %RE

Data Visualization Completed by S2C2 Inc.

015279

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Tank Farm 10 Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %RE
300 %RE
100 %RE
30 %RE
10 %RE
3 %RE
1 %RE
0.3 %RE
0.1 %RE

Geologic Interp.
Overburden
CPT Refusal

Fluorescence above 3.0 %RE

Data Visualization Completed by S2C2 Inc.

015280

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
ROST Borings
Vertical Exaggeration = 5x

Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

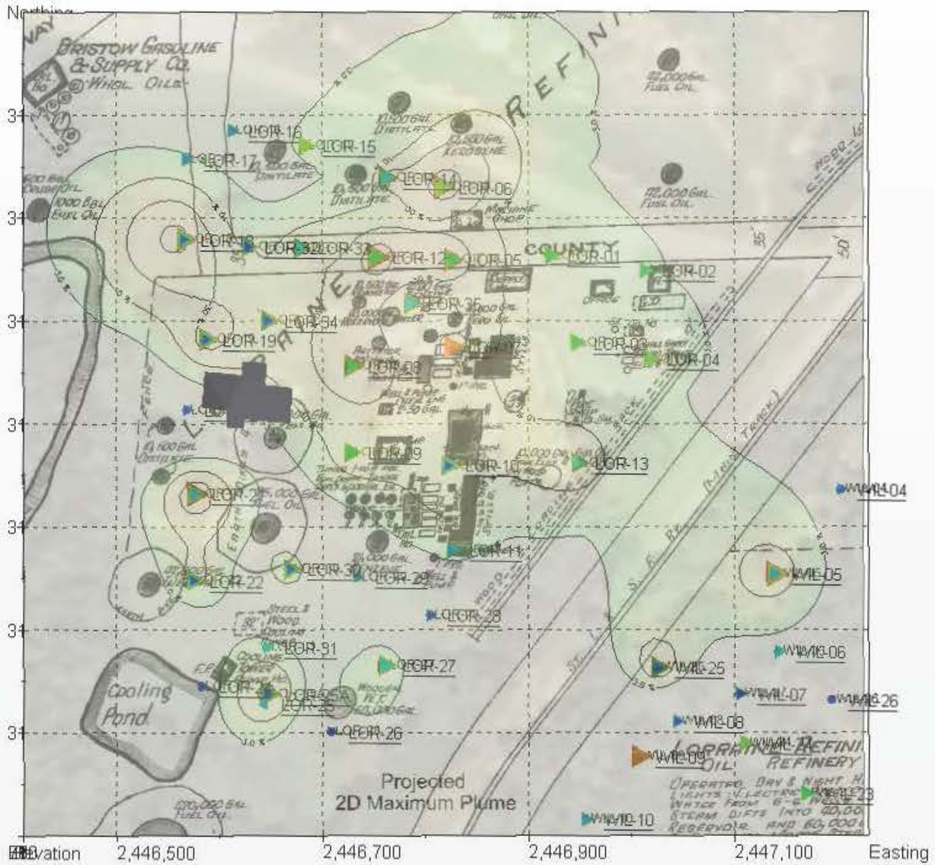
Geologic Interp.
Overburden
CPT Refusal

Data Visualization Completed by S2C2 Inc.

015281

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
2D Maximum Fluorescence
1923 San Born Map
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

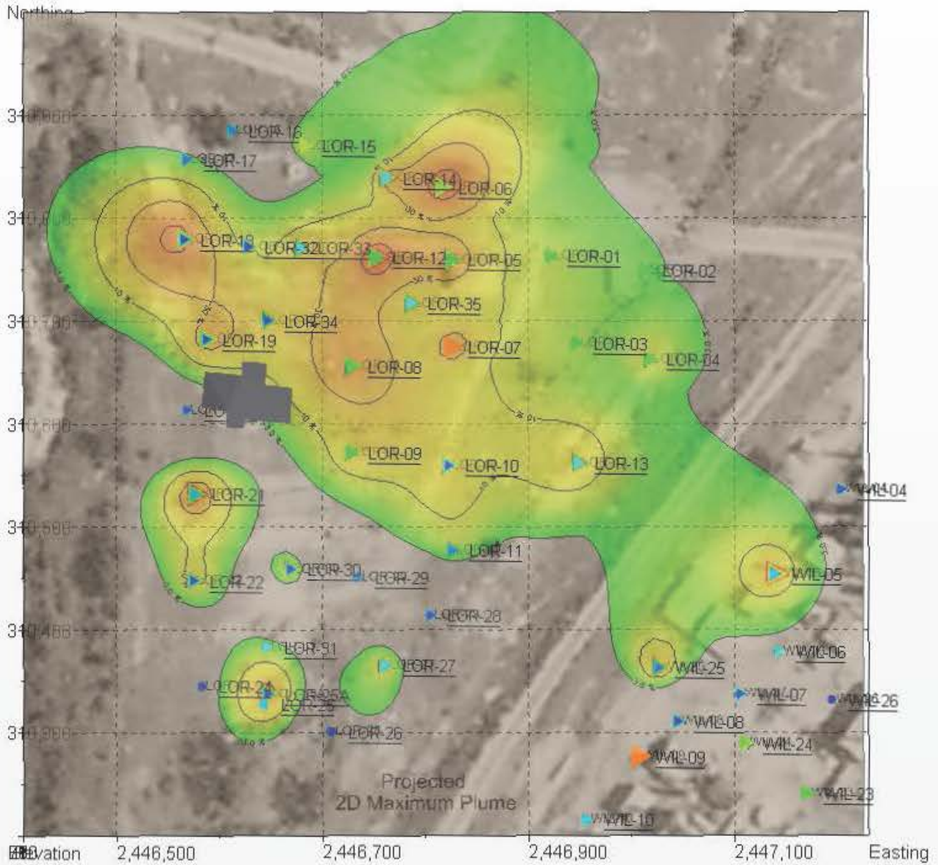
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015282

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
2D Maximum Fluorescence
1956 Aerial
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

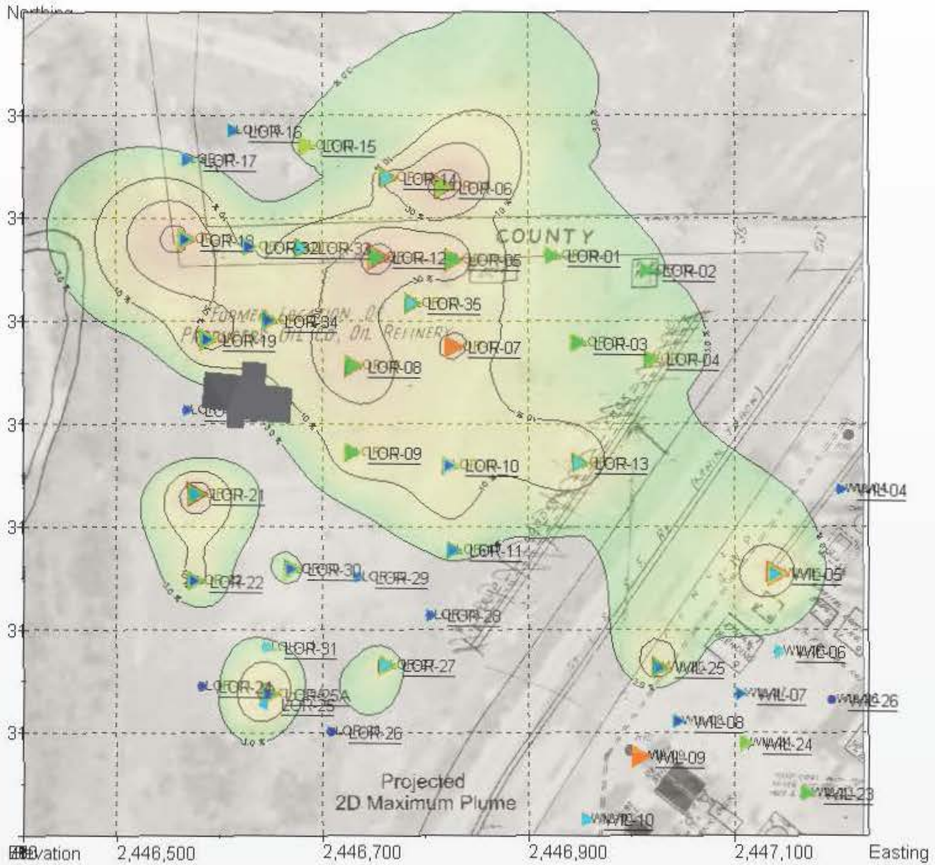
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015283

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
2D Maximum Fluorescence
1956 Aerial
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

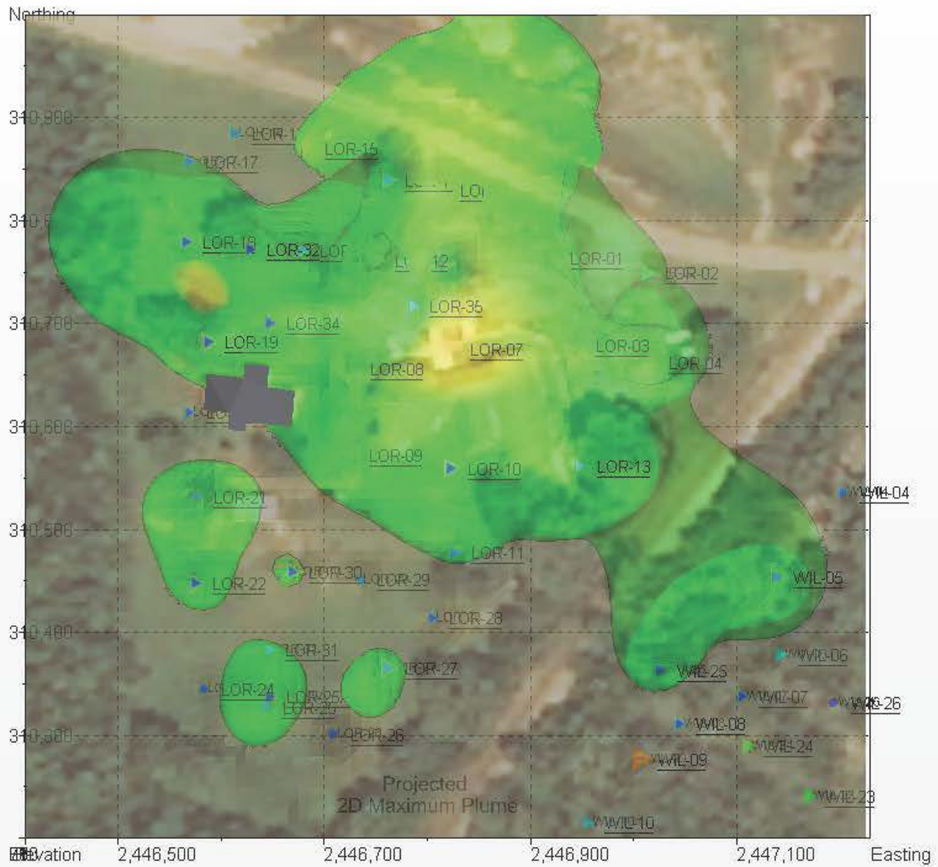
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015284

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

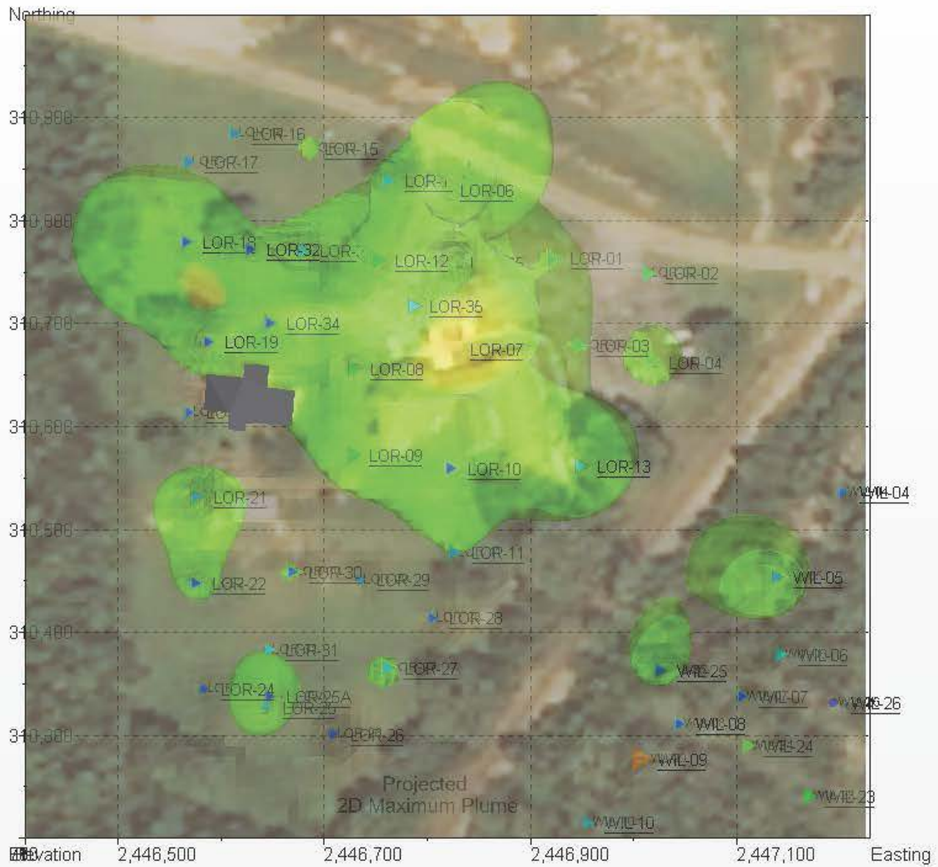
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015285

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

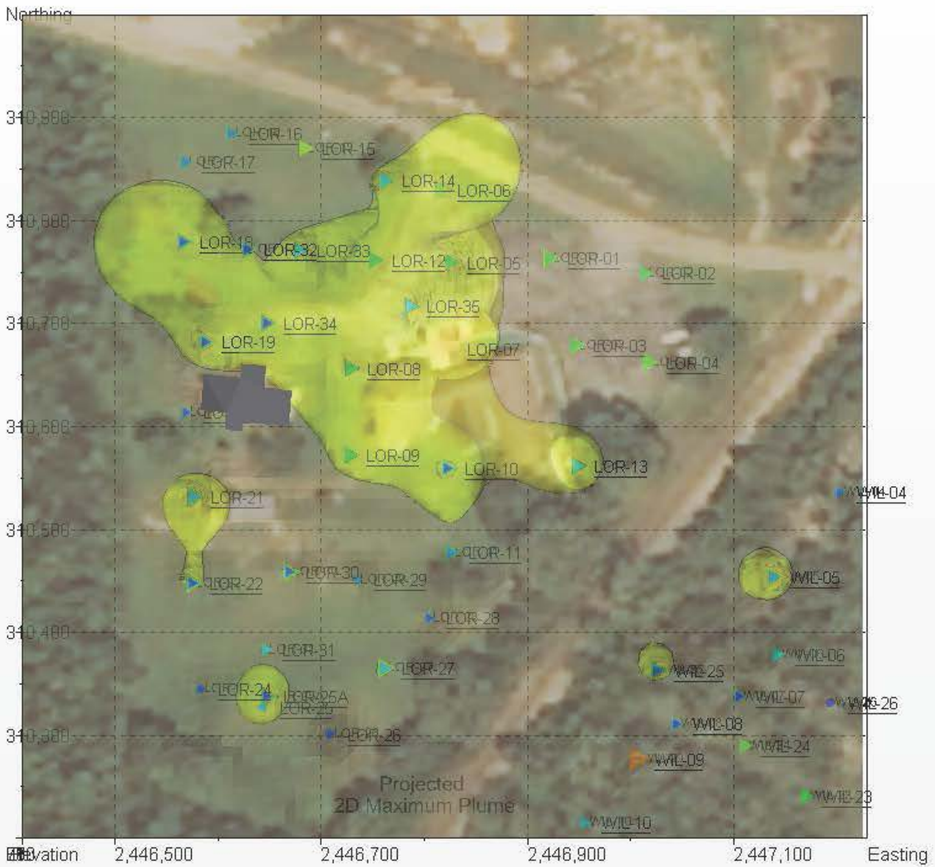
Fluorescence above 5.0 %

Data Visualization Completed by S2C2 Inc.

015286

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

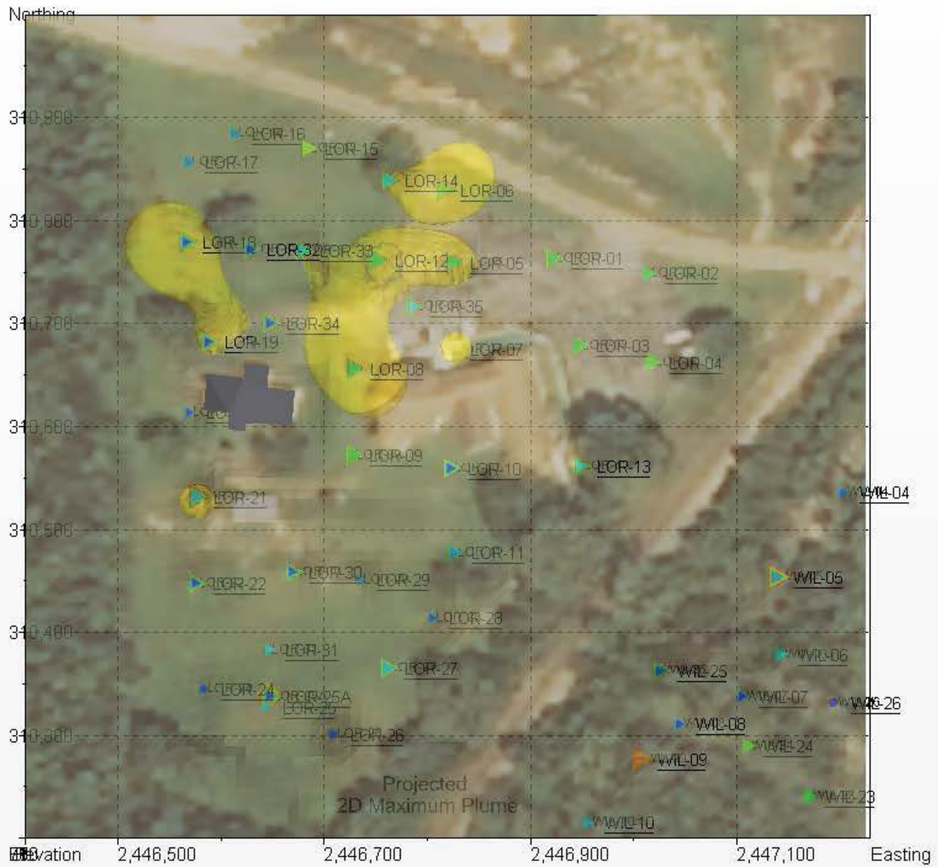
Fluorescence above 10 %

Data Visualization Completed by S2C2 Inc.

015287

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

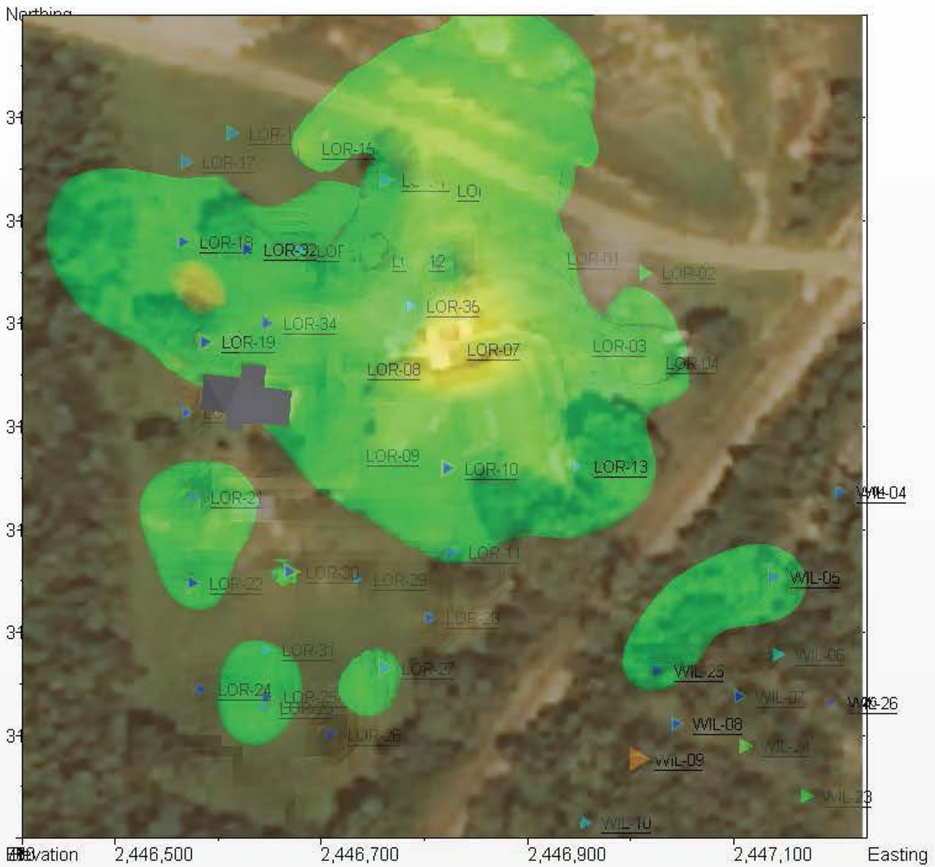
Fluorescence above 25 %

Data Visualization Completed by S2C2 Inc.

015288

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

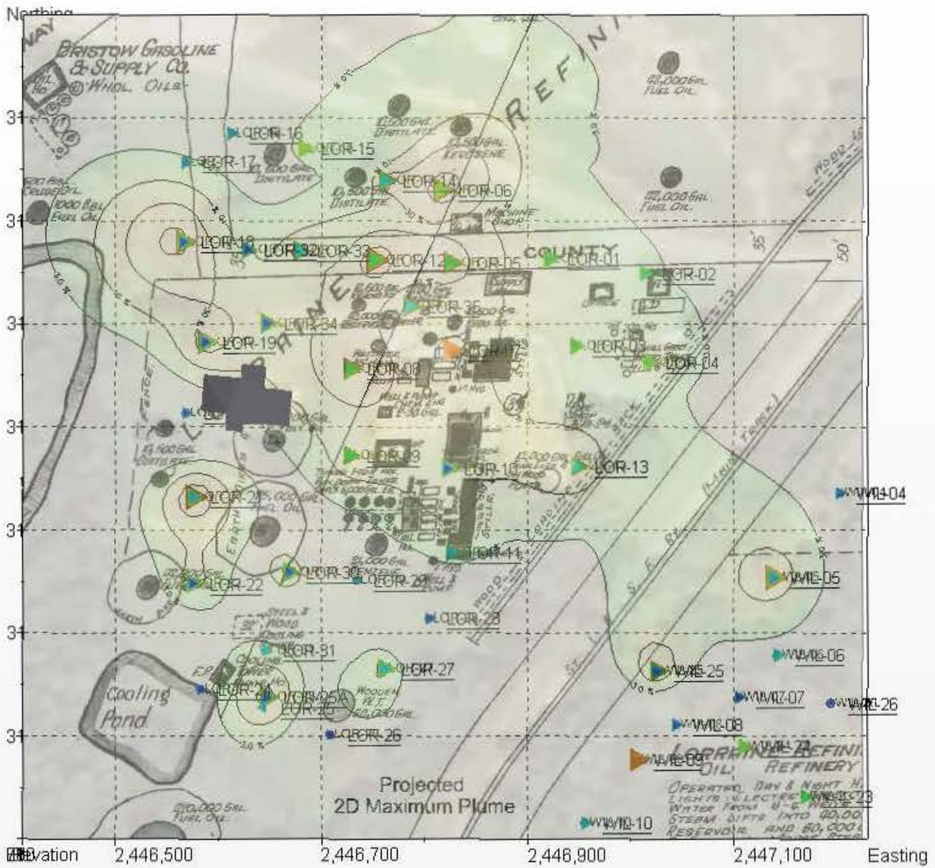
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015289

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

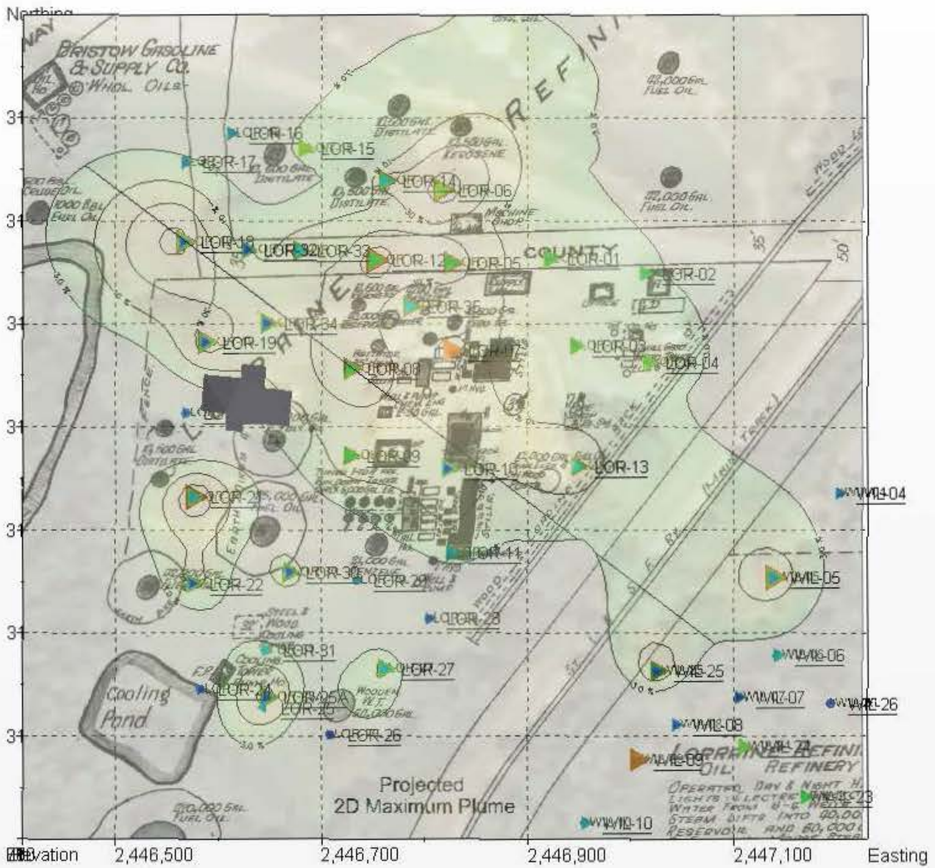
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015290

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence Slice
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

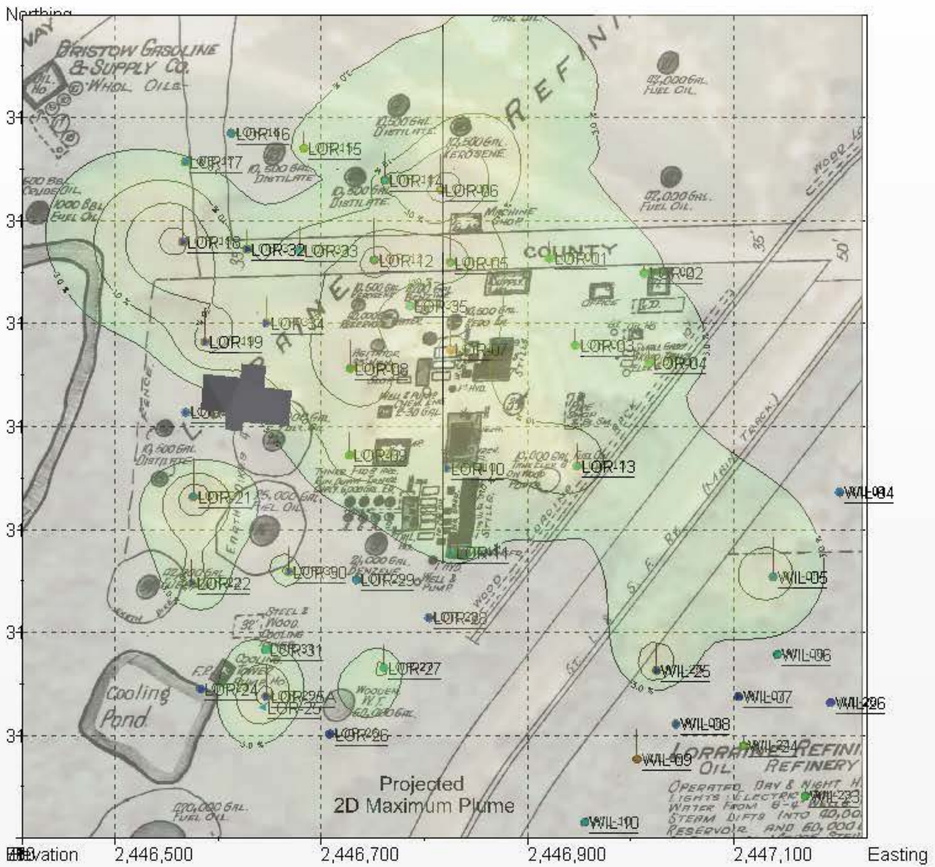
Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015291

Wilcox Refinery Superfund Site
Bristow, Oklahoma
Initial Conceptual Site Model - 2015

Former Loraine Refinery Grid
3D Kriged Fluorescence Slice
ROST Fluorescence Color (RGB)
Vertical Exaggeration = 5x



Fluorescence
500 %
300 %
100 %
30 %
10 %
3 %
1 %
0.3 %
0.1 %

Geologic Interp.
Overburden
CPT Refusal

Fluorescence above 3.0 %

Data Visualization Completed by S2C2 Inc.

015292

Wilcox/Lorraine Refinery
Refinery Rd
Bristow, OK 74010

Inquiry Number: 3313889.1
May 01, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

18 001

015293

Certified Sanborn® Map Report

5/01/12

Site Name:
Wilcox/Lorraine Refinery
Refinery Rd
Bristow, OK 74010

Client Name:
Dynamac Corporation
1202 Executive Drive West
Richardson, TX 75081

EDR Inquiry # 3313889.1

Contact: Kris Lloyd

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Dynamac Corporation were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Wilcox/Lorraine Refinery
Address: Refinery Rd
City, State, Zip: Bristow, OK 74010
Cross Street:
P.O. # NA
Project: S109-20F
Certification # 398F-439D-A25F

Maps Provided:

1961
1923
1920
1915

Sanborn® Library search results
Certification # 398F-439D-A25F

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Dynamac Corporation (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

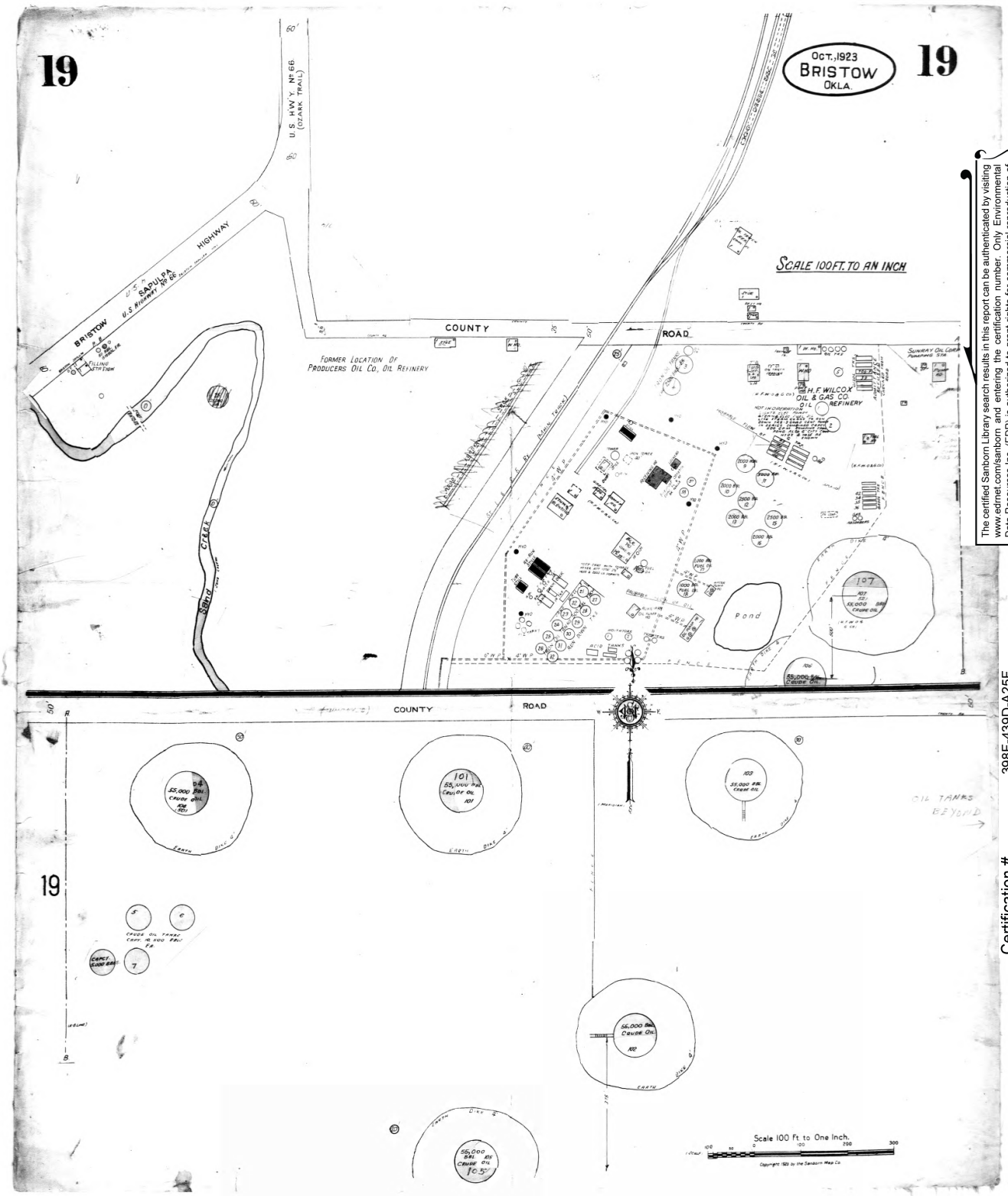
Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

1961 Certified Sanborn Map



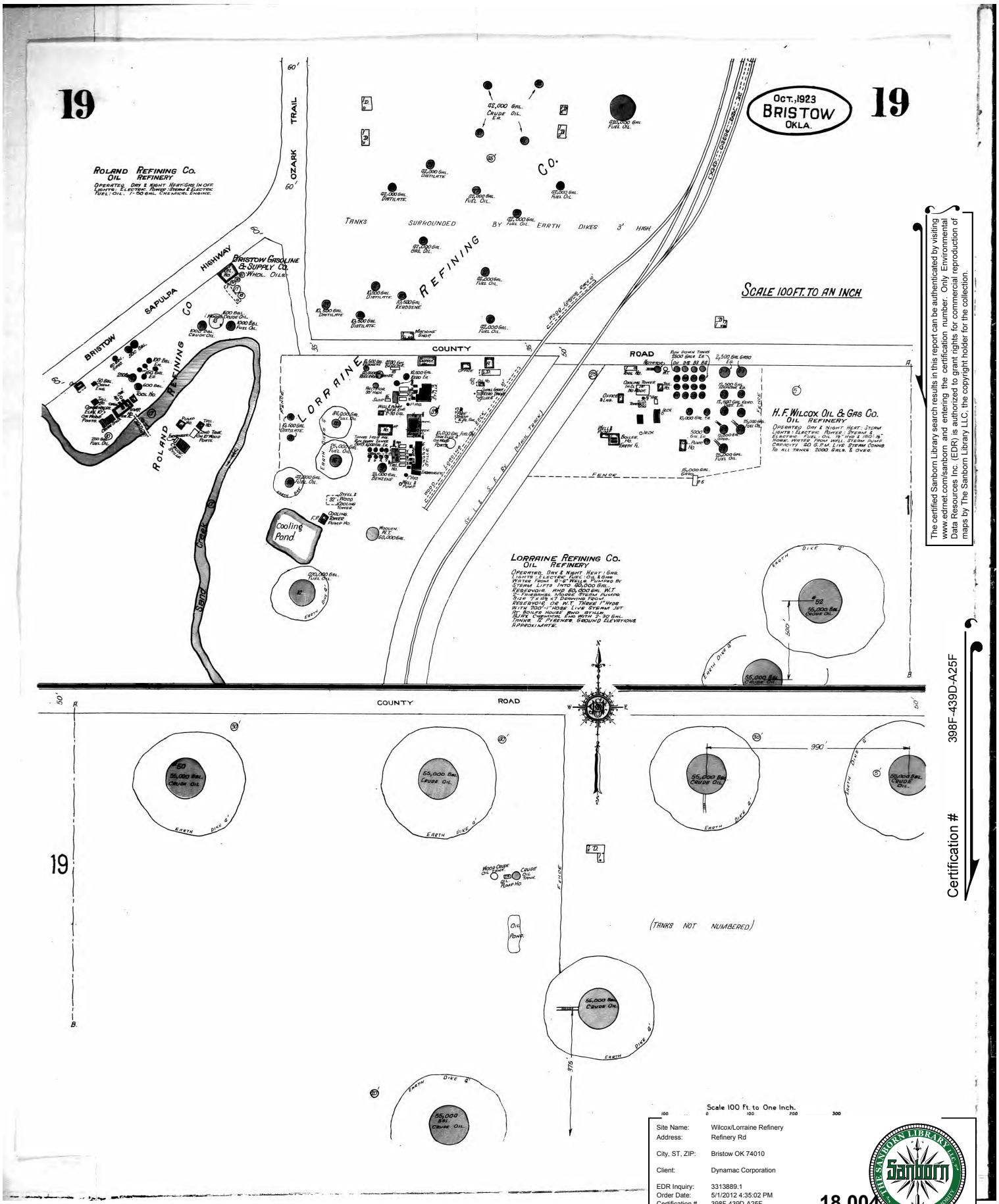
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 398F-439D-A25F

Site Name:	Wilcox/Lorraine Refinery
Address:	Refinery Rd
City, ST, ZIP:	Bristow OK 74010
Client:	Dynamac Corporation
EDR Inquiry:	3313889.1
Order Date:	5/1/2012 4:35:02 PM
Certification #	398F-439D-A25
Copyright:	1961

18 003

1923 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 398F-439D-A25F

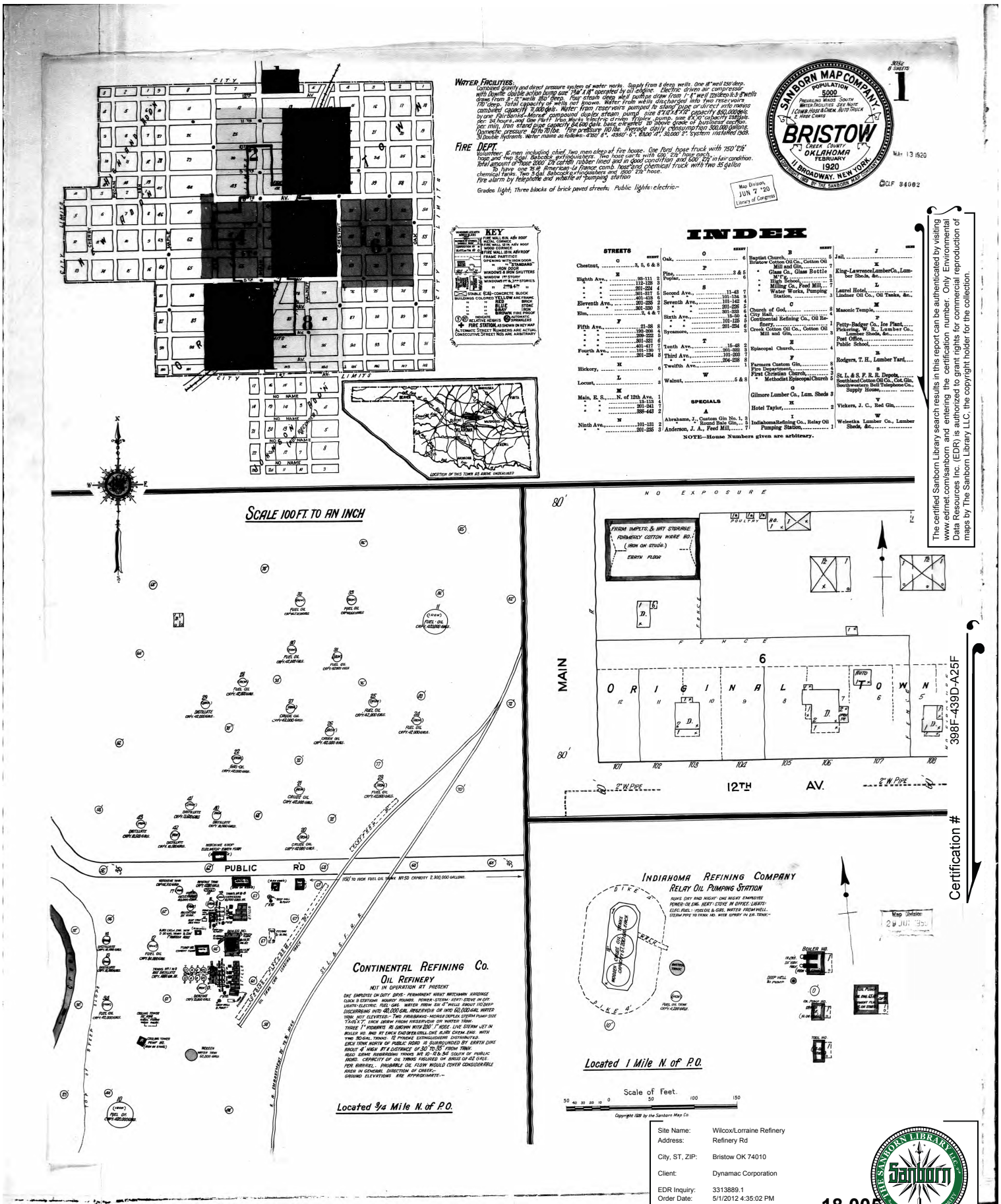
Site Name:	Wilcox/Lorraine Refinery
Address:	Refinery Rd
City, ST, ZIP:	Bristow OK 74010
Client:	Dynamac Corporation
EDR Inquiry:	3313889.1
Order Date:	5/1/2012 4:35:02 PM
Certification #	398F-439D-A25F
Copyright:	1923

18 004

THE SANBORN LIBRARY LLC Sanborn SEAL OF AUTHENTICITY

015296

1920 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

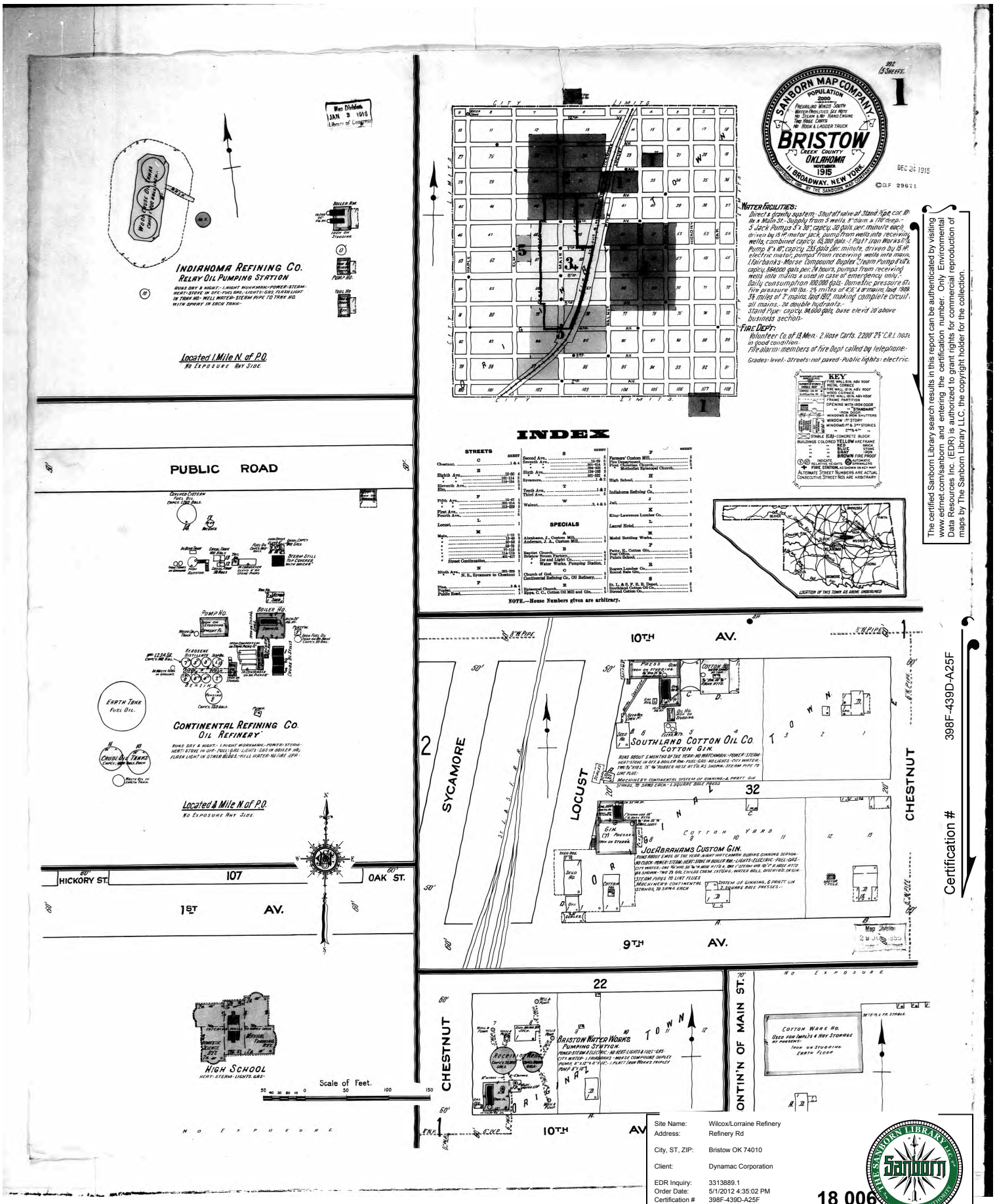
Certification # 398F-439D-A25F

Site Name:	Wilcox/Lorraine Refinery
Address:	Refinery Rd
City, ST, ZIP:	Bristow OK 74010
Client:	Dynamac Corporation
EDR Inquiry:	3313889.1
Order Date:	5/1/2012 4:35:02 PM
Certification #	398F-439D-A25F
Copyright:	1920

18 005

015297

1915 Certified Sanborn Map



WATER FACILITIES:

Direct & gravity system.- Shut off valve at Stand Pipe cor. 8th & Main St.- Supply from 5 wells, 8" diam. & 110' deep.- 5 Jack Pumps 5"x 30", capcy. 30 gals. per minute each, driven by 15 HP motor jack, pump from wells into receiving wells, combined capcy. 63,200 gals.- 1 Platt Iron Works 8"x 8" Pump, capcy. 235 gals per minute, driven by 15 HP electric motor, pumps from receiving wells into mains.- 1 Fairbanks-Morse Compound Duplex Steam Pump 8"x12"x12", capcy. 864,000 gals. per 24 hours, pumps from receiving wells into mains & used in case of emergency only.- Daily consumption 100,000 gals.- Domestic pressure 67 lbs.- Fire pressure 110 lbs.- 2¾ miles of 4"& 6" mains, laid 1908.- 3¾ miles of 8" mains, laid 1912, making complete circuit of mains.- 34 double hydrants.- Stand Pipe: capcy. 94,600 gals, base elevd 20' above business section.-

FIRE DEPT:

Volunteer Co. of 13 Men.- 2 Hose Carts, 2,200' 2½" C.R.L. hose in good condition.- Fire alarm: members of Fire Dept called by telephone.-

Grades: level.- Streets: not paved.- Public lights: electric.

The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 398F-439D-A25F

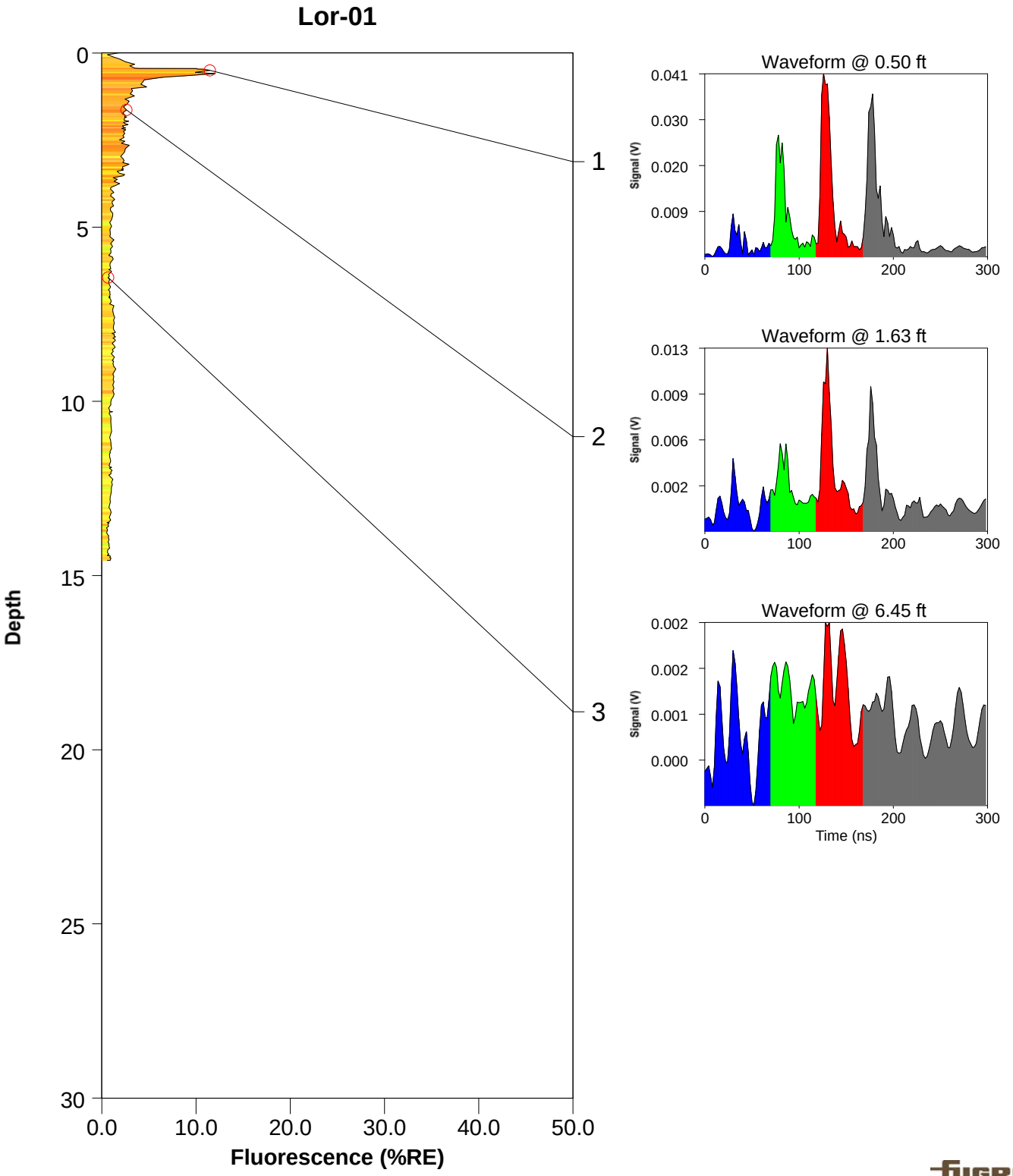
Site Name:	Wilcox/Lorraine Refinery
Address:	Refinery Rd
City, ST, ZIP:	Bristow OK 74010
Client:	Dynamac Corporation
EDR Inquiry:	3313889.1
Order Date:	5/1/2012 4:35:02 PM
Certification #	398F-439D-A25F
Copyright:	1915

18 006

015298

ROST Fluorescence Response Data

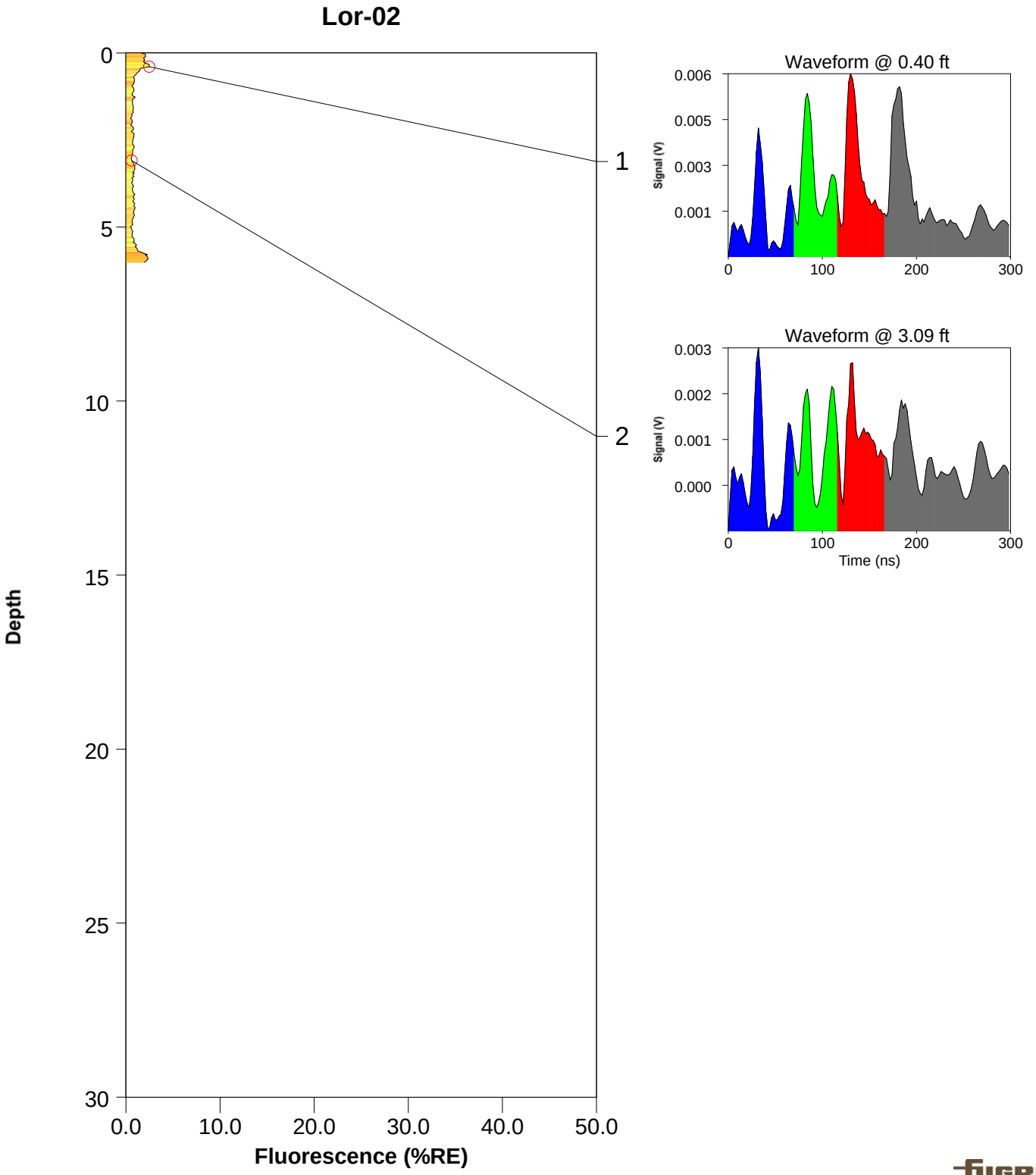
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/1/2015 @ 2:42:50 PM	Max fluorescence: 12.02% @ 0.59 ft
ROST Unit: ?	Final depth BGS: 14.57 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

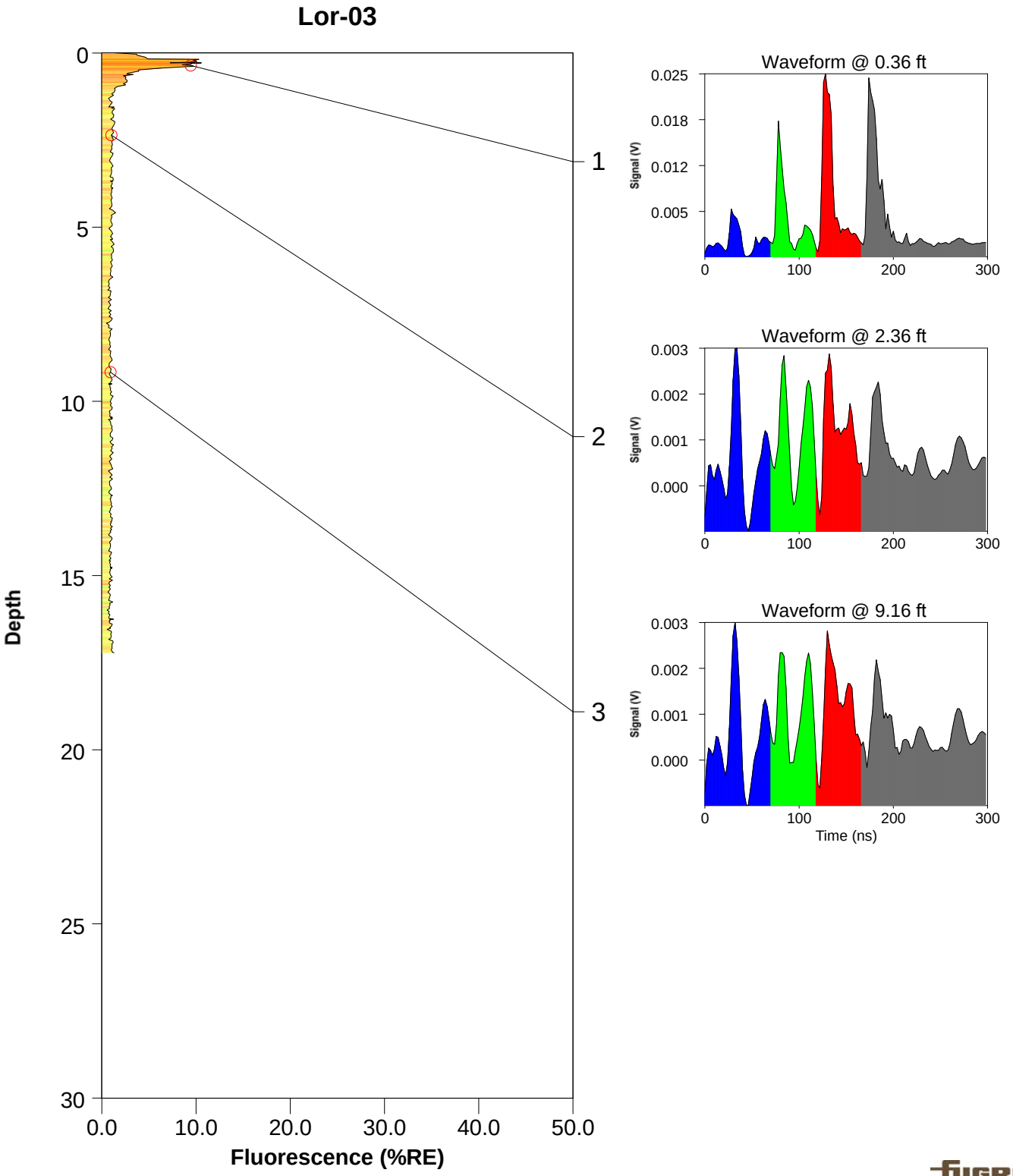
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/1/2015 @ 3:20:01 PM	Max fluorescence: 2.47% @ 0.33 ft
ROST Unit: ?	Final depth BGS: 6.02 ft



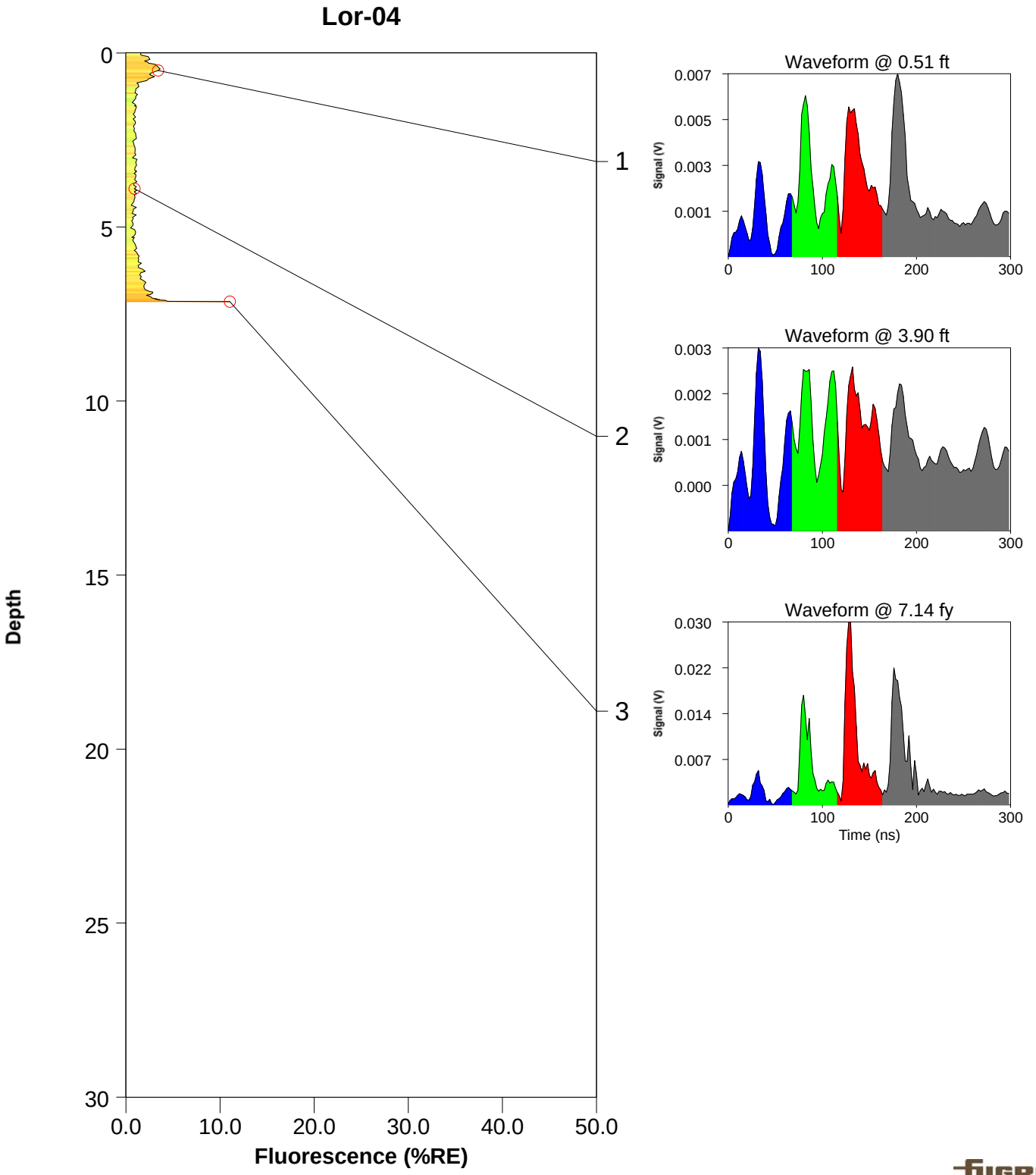
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/1/2015 @ 3:47:27 PM	Max fluorescence: 10.55% @ 0.29 ft
ROST Unit: ?	Final depth BGS: 17.22 ft



ROST Fluorescence Response Data

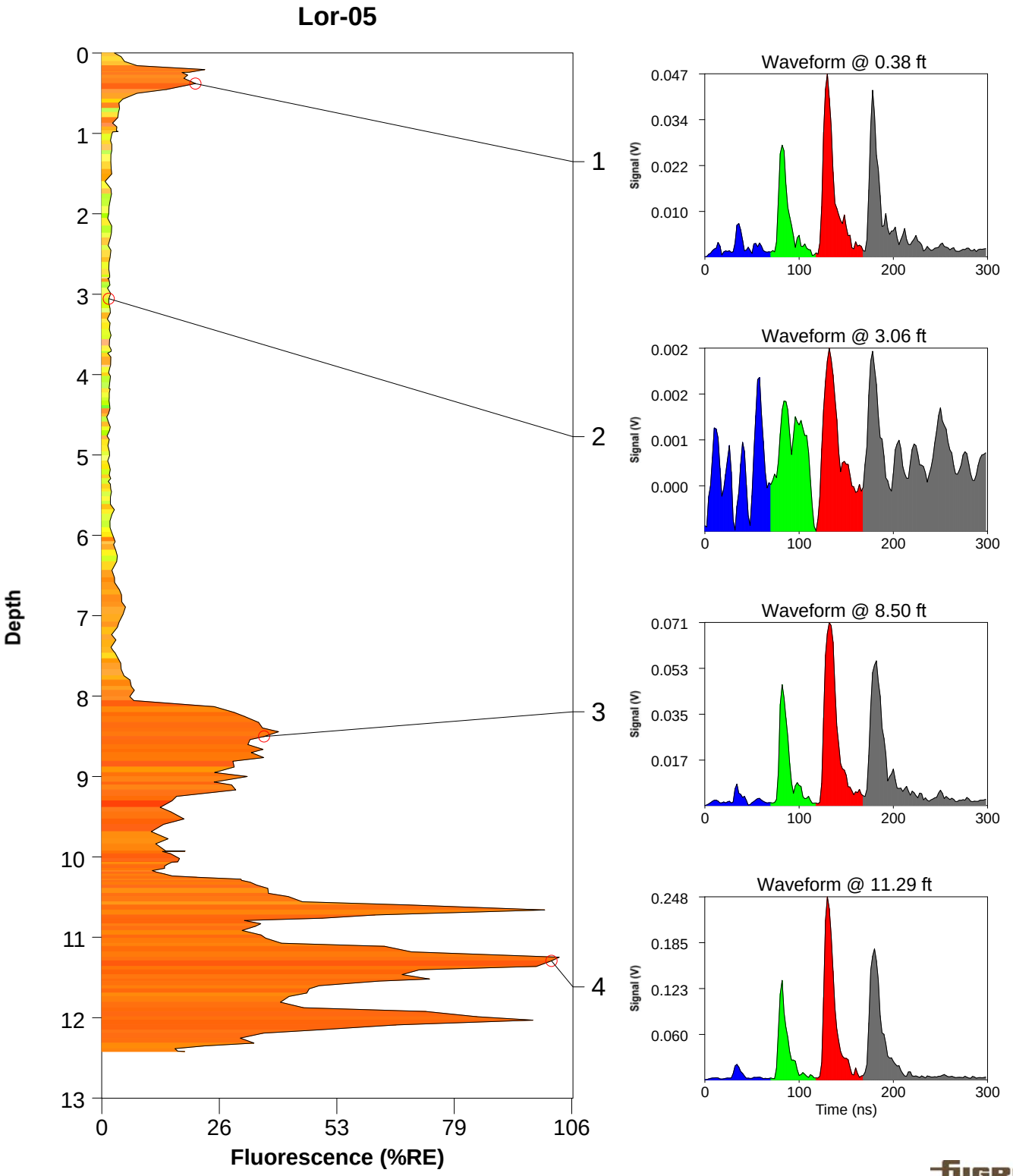
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/1/2015 @ 4:29:16 PM	Max fluorescence: 11.04% @ 7.14 ft
ROST Unit: ?	Final depth BGS: 7.14 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

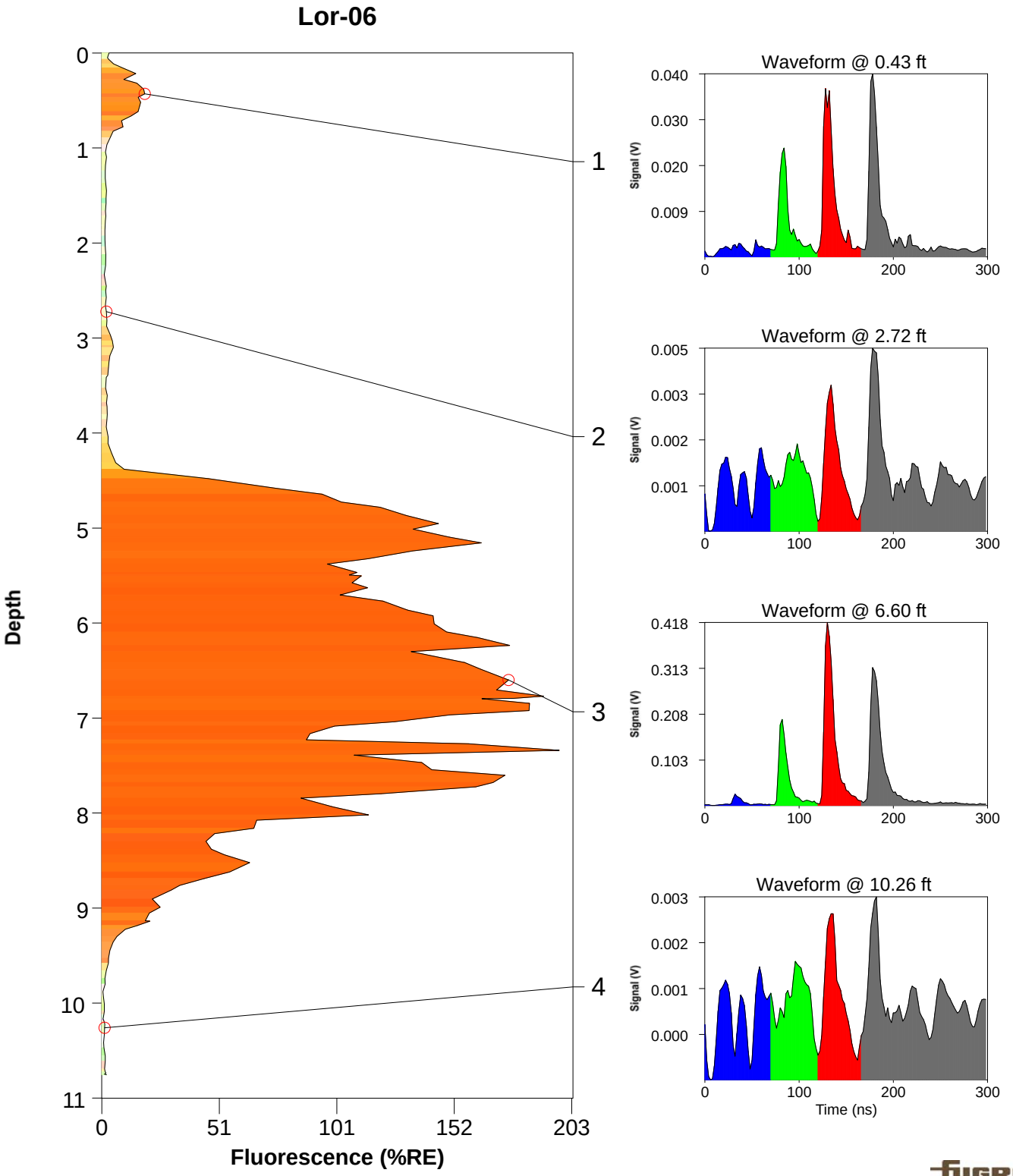
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 9:26:12 AM	Max fluorescence: 102.71% @ 11.25 ft
ROST Unit: ?	Final depth BGS: 12.42 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

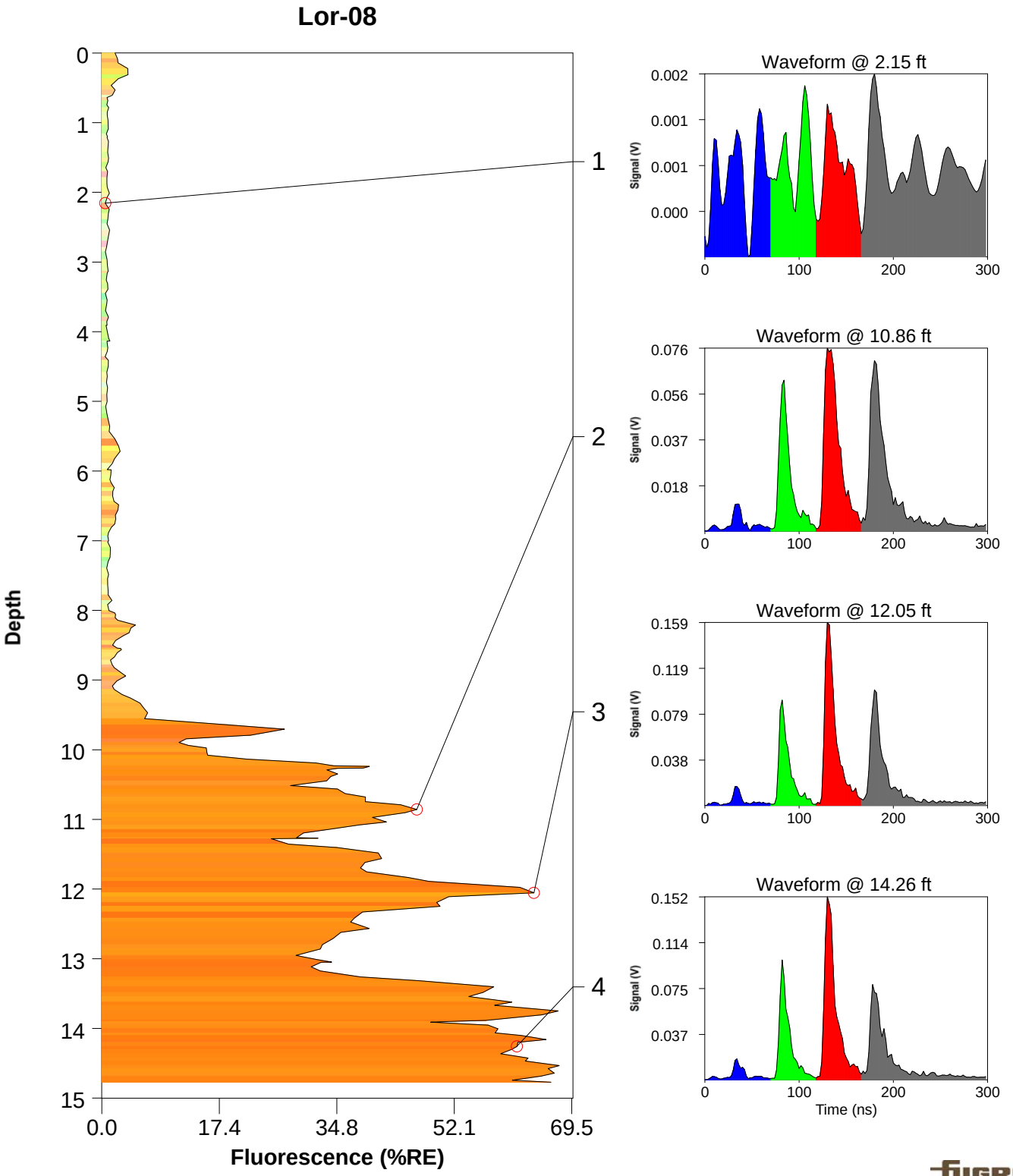
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 10:08:38 AM	Max fluorescence: 197.26% @ 7.34 ft
ROST Unit: ?	Final depth BGS: 10.76 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

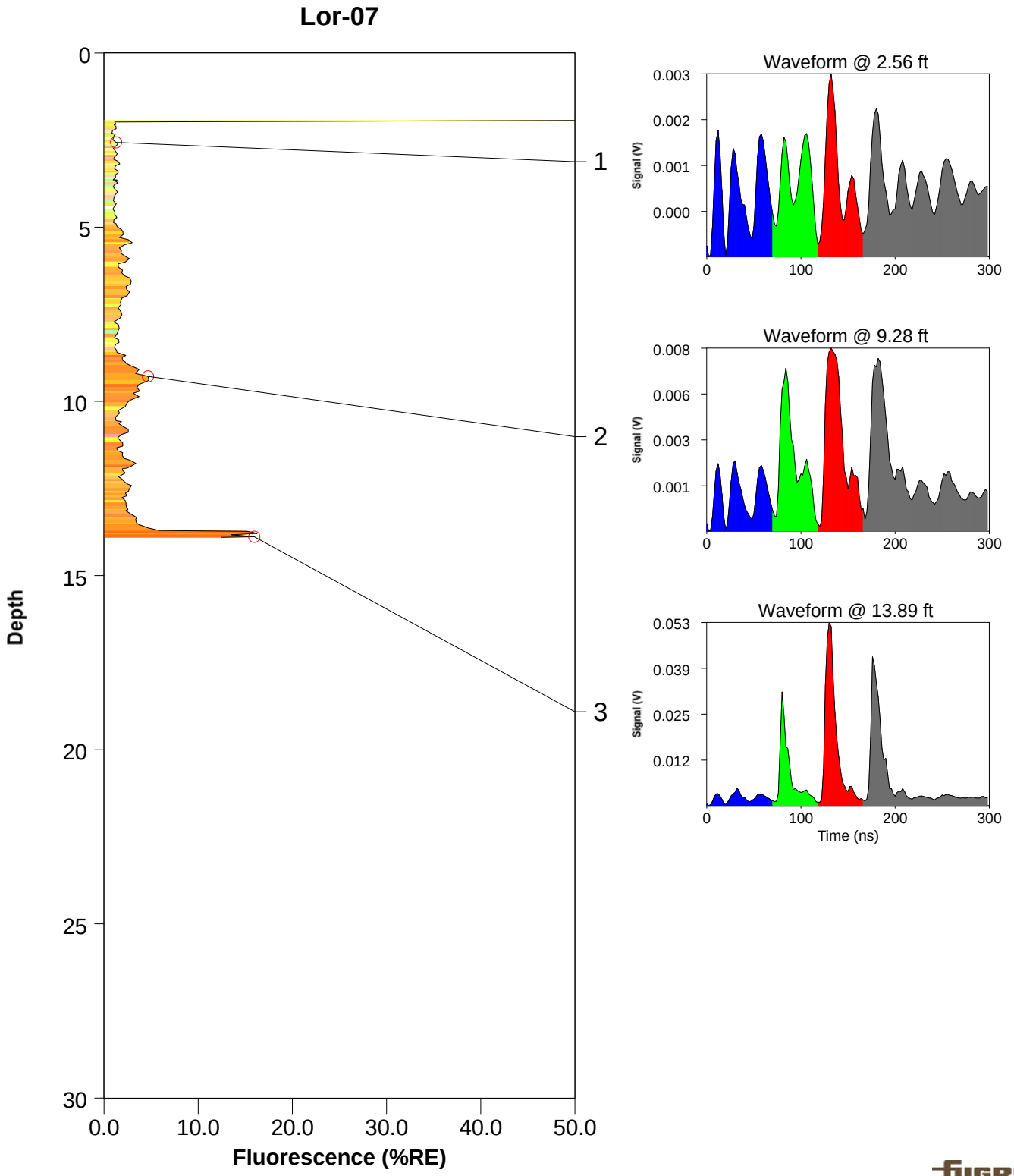
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 1:03:52 PM	Max fluorescence: 67.65% @ 14.53 ft
ROST Unit: ?	Final depth BGS: 14.77 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

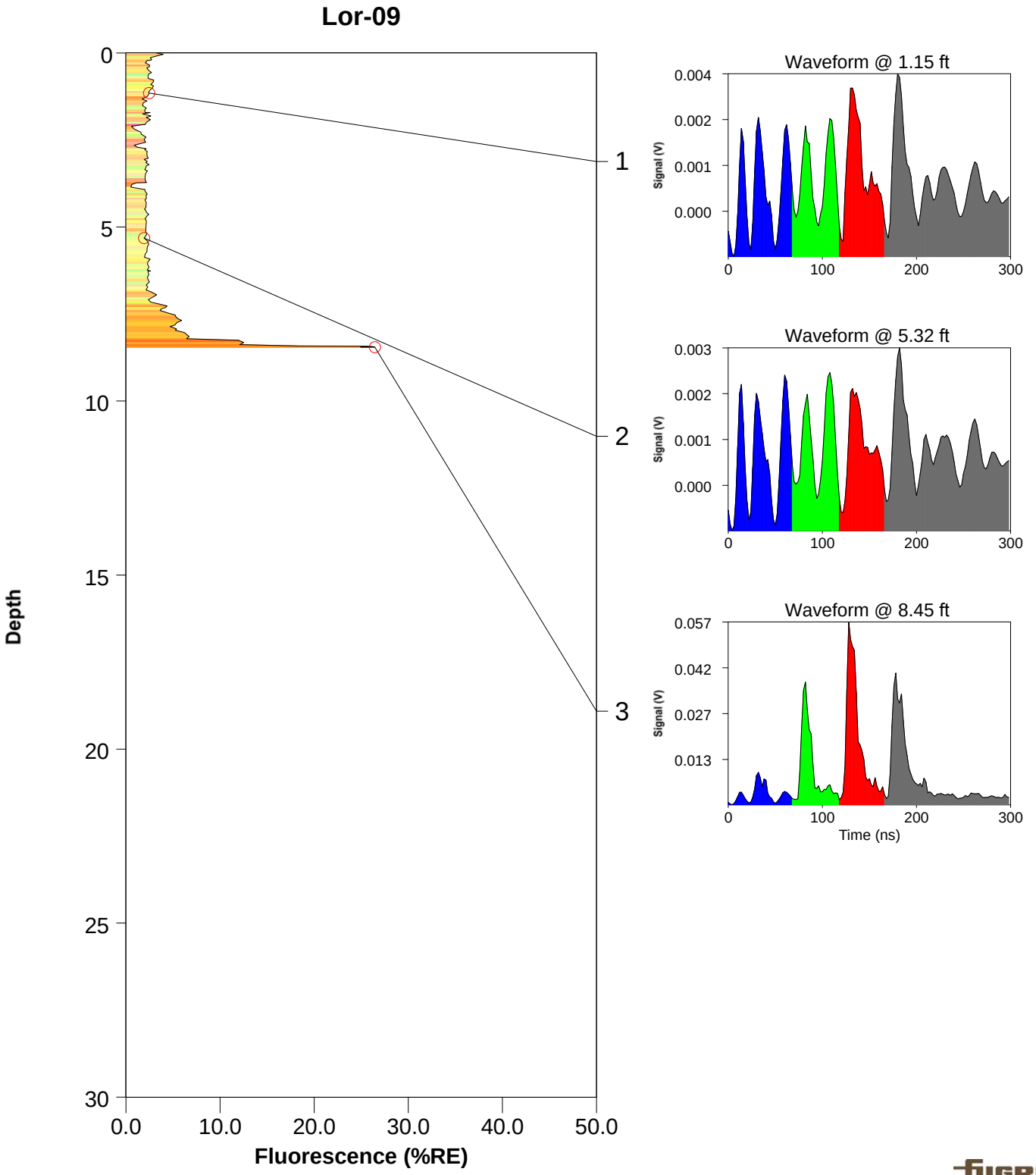
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 11:57:50 AM	Max fluorescence: 105.11% @ 1.94 ft
ROST Unit: ?	Final depth BGS: 13.90 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

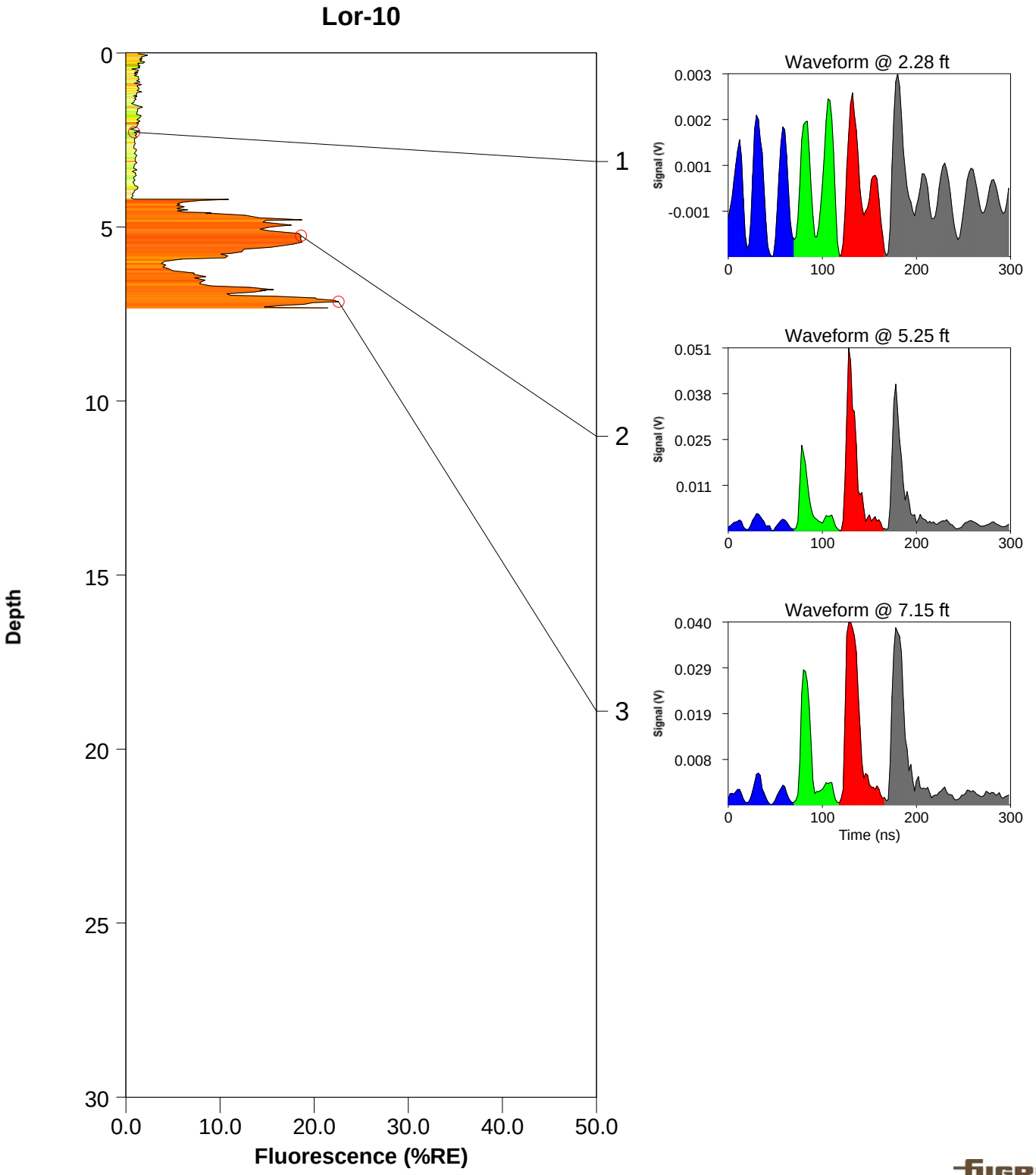
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 1:59:58 PM	Max fluorescence: 26.45% @ 8.45 ft
ROST Unit: ?	Final depth BGS: 8.45 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

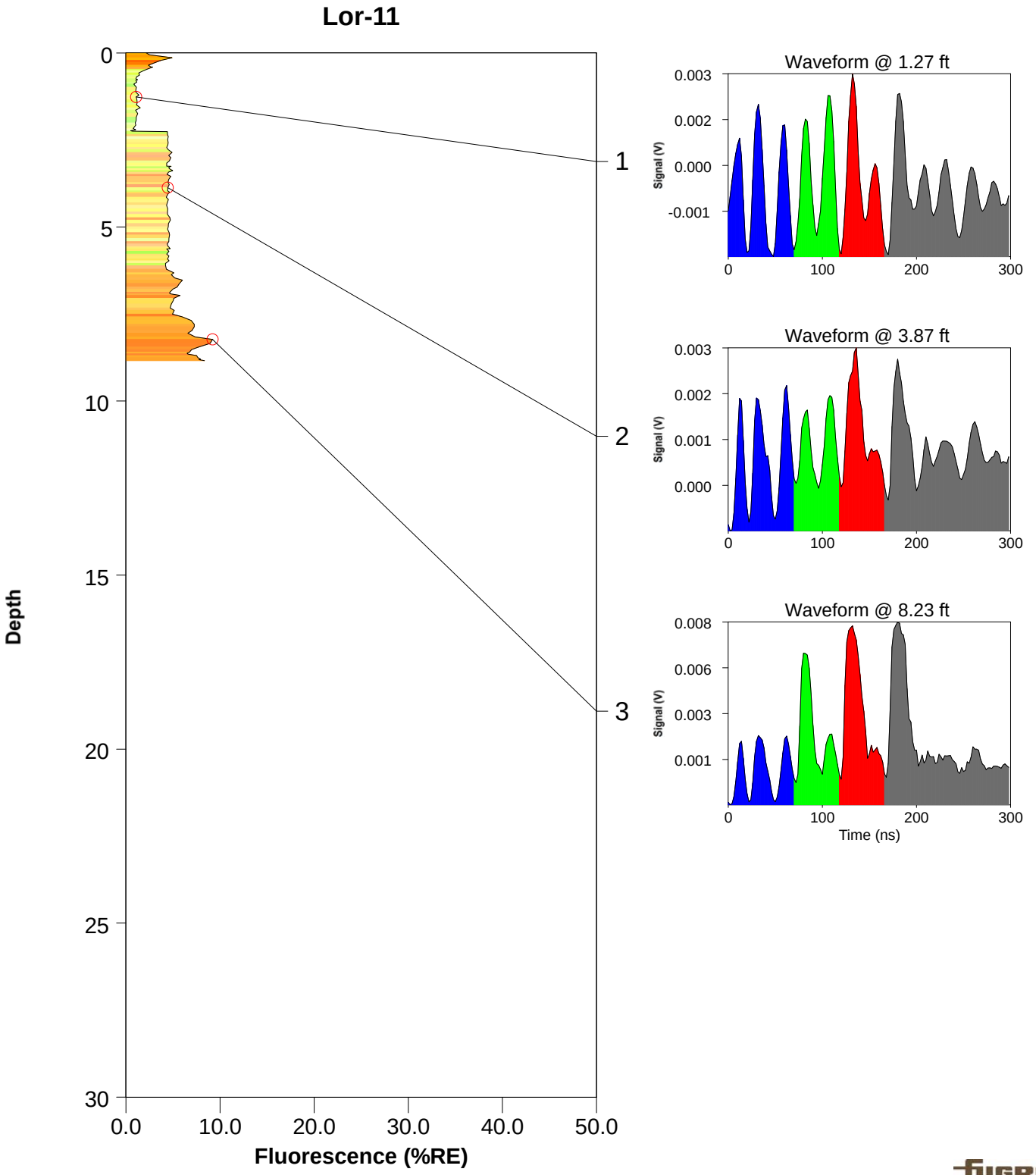
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 2:28:45 PM	Max fluorescence: 22.59% @ 7.15 ft
ROST Unit: ?	Final depth BGS: 7.33 ft



ROST Fluorescence Response Data

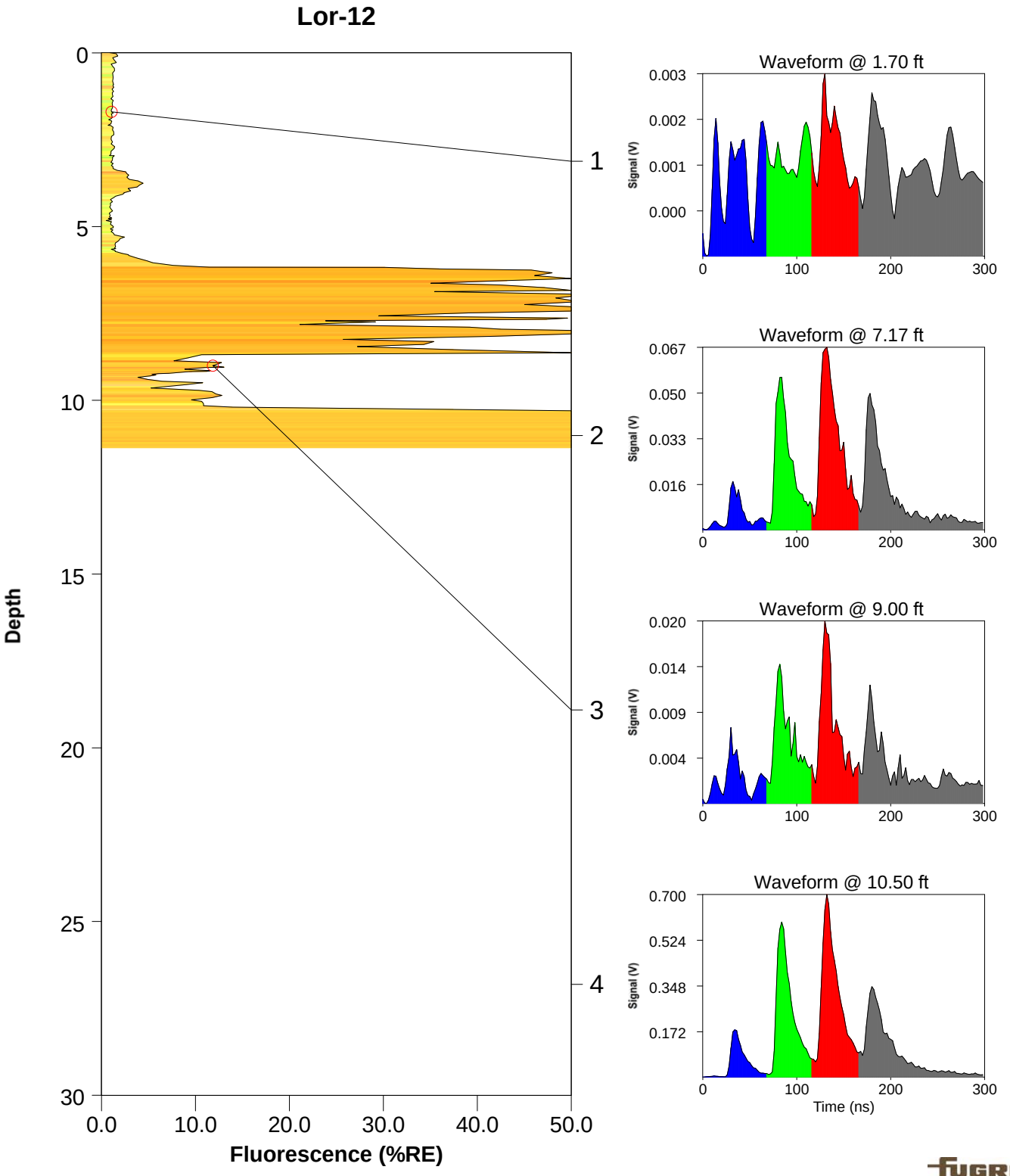
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 3:05:47 PM	Max fluorescence: 9.20% @ 8.23 ft
ROST Unit: ?	Final depth BGS: 8.84 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

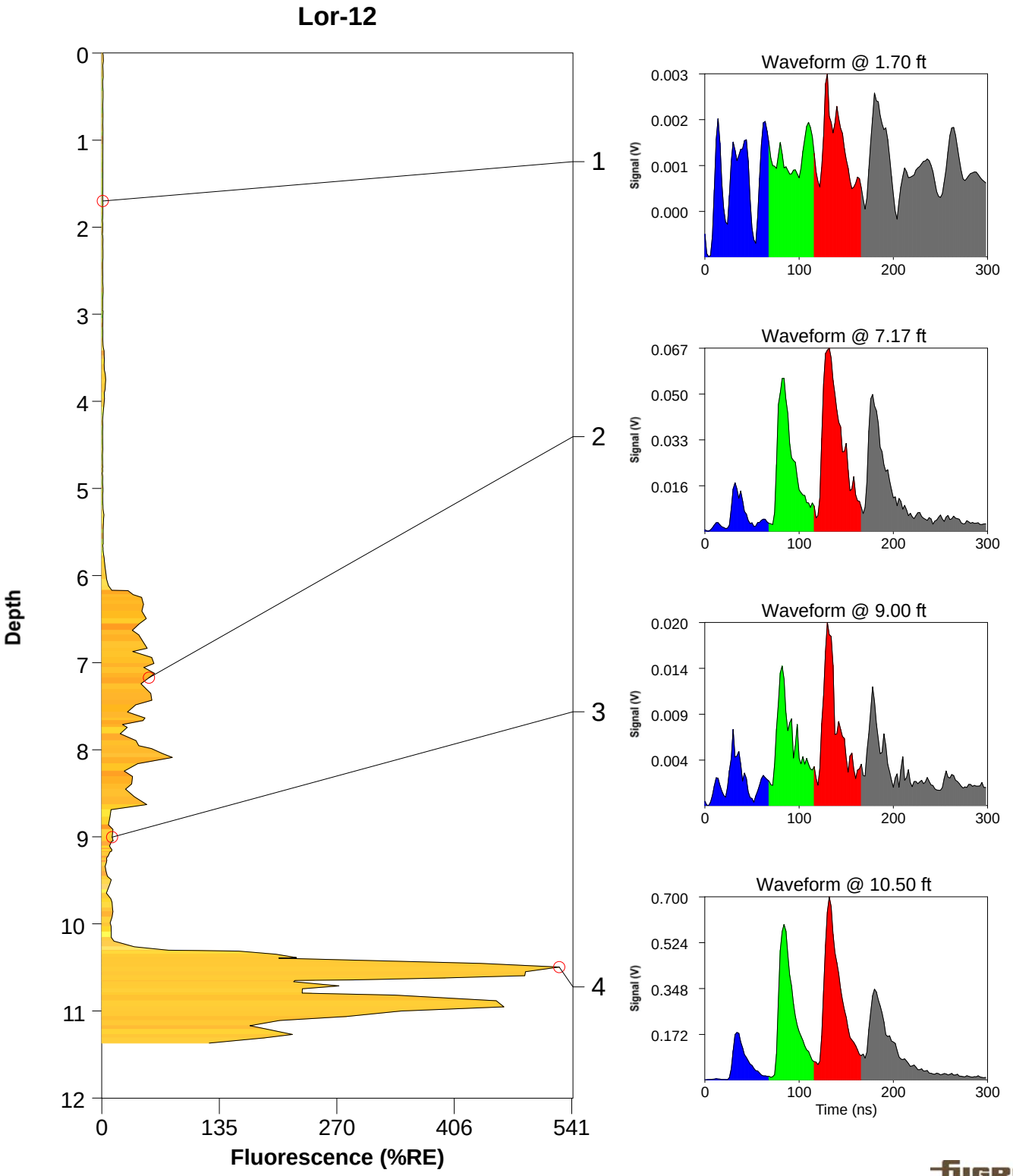
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 3:53:11 PM	Max fluorescence: 526.17% @ 10.50 ft
ROST Unit: ?	Final depth BGS: 11.37 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

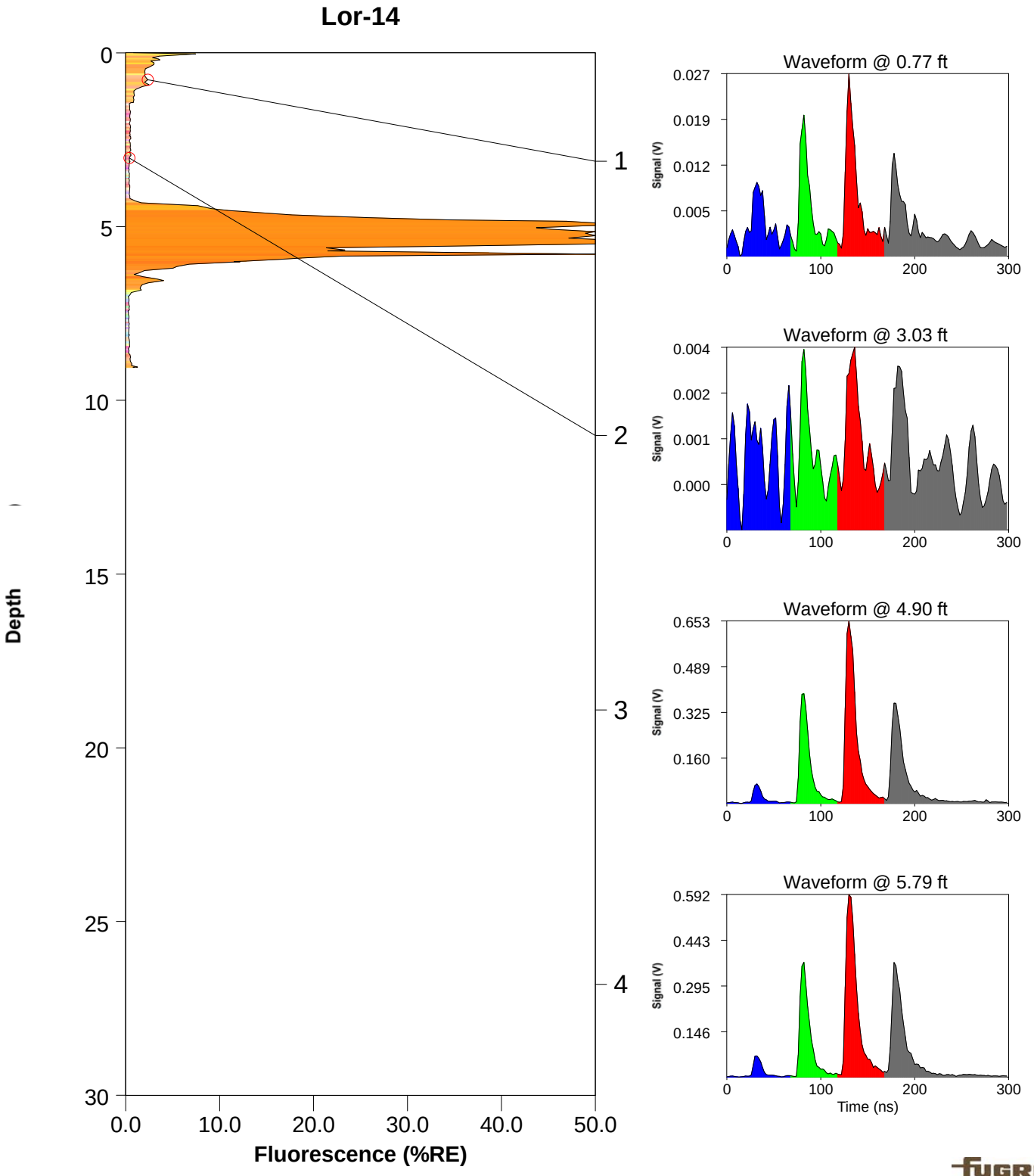
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/2/2015 @ 3:53:11 PM	Max fluorescence: 526.17% @ 10.50 ft
ROST Unit: ?	Final depth BGS: 11.37 ft



ROST Fluorescence Response Data

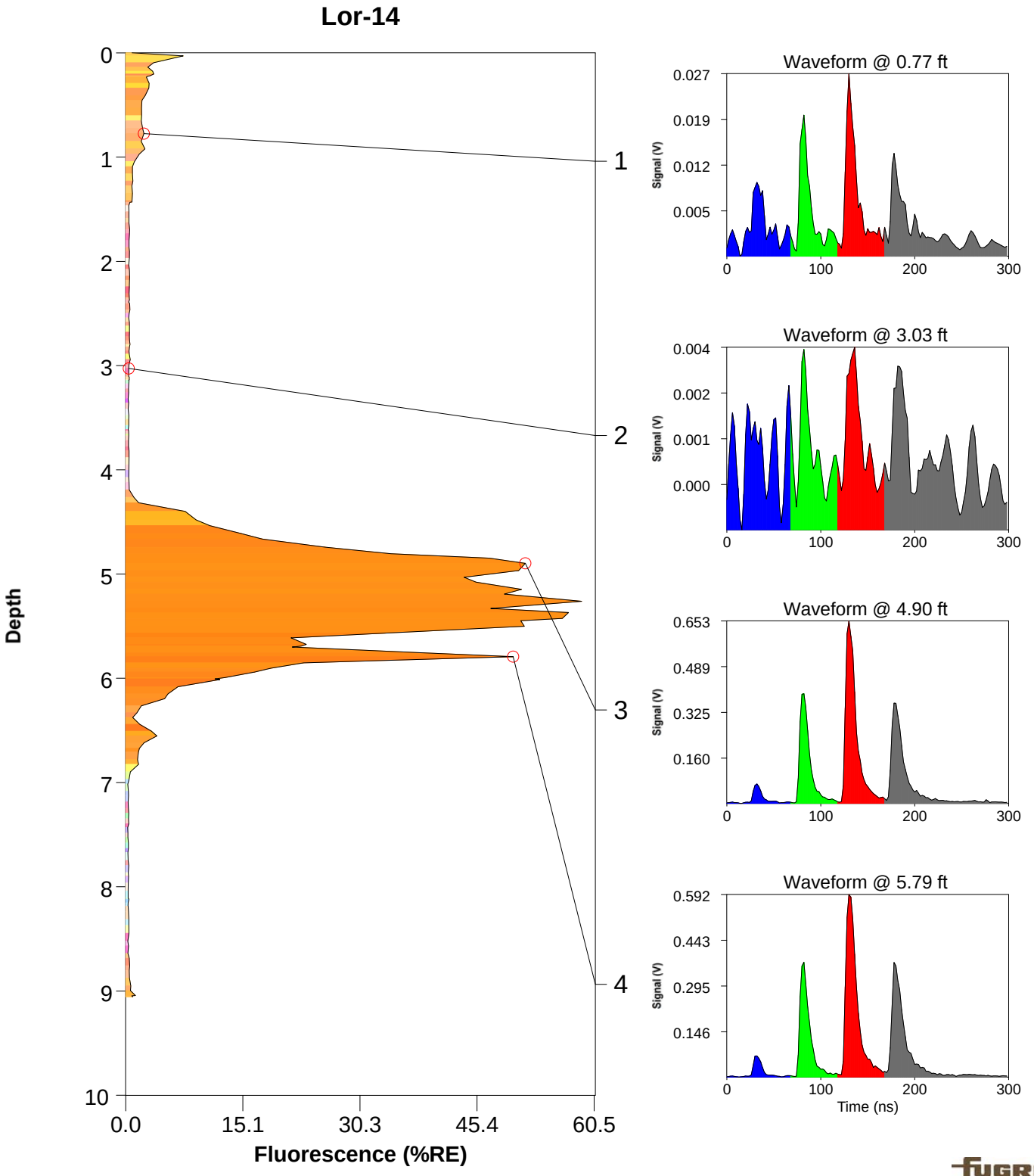
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/3/2015 @ 3:20:02 PM	Max fluorescence: 58.91% @ 5.26 ft
ROST Unit: ?	Final depth BGS: 9.06 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

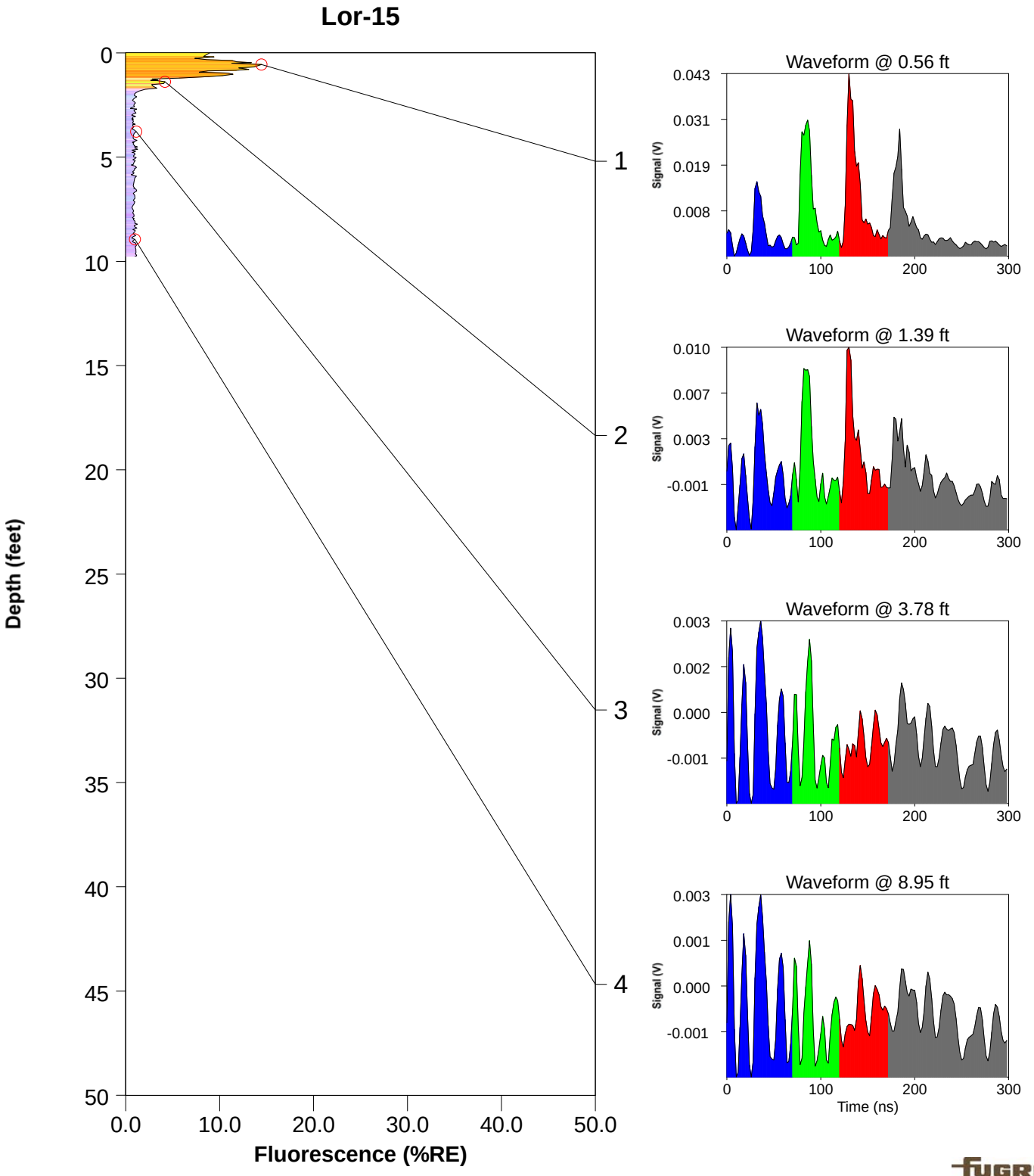
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/3/2015 @ 3:20:02 PM	Max fluorescence: 58.91% @ 5.26 ft
ROST Unit: ?	Final depth BGS: 9.06 ft



ROST Fluorescence Response Data

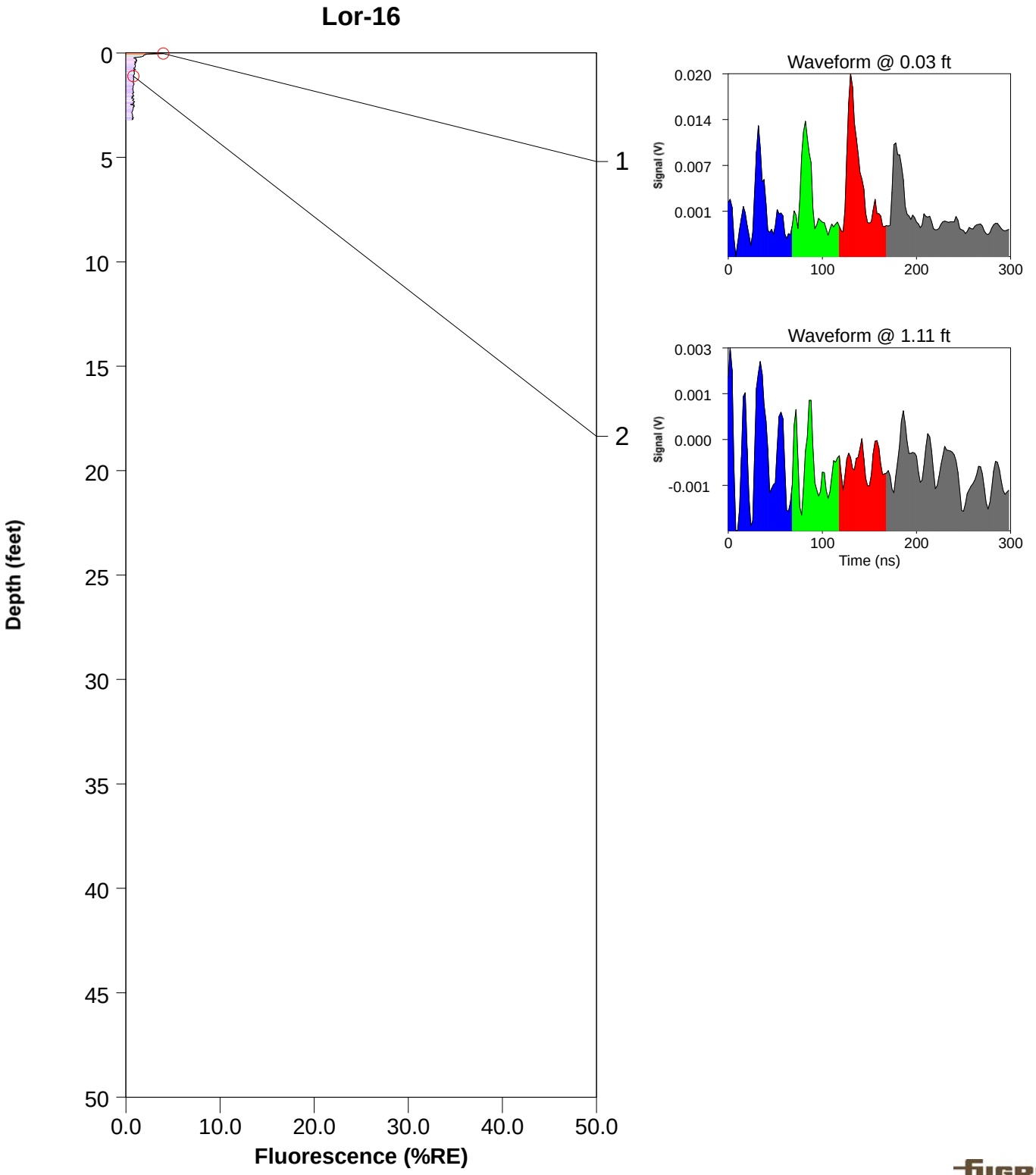
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 12:20:54 PM	Max fluorescence: 14.45% @ 0.56 ft
ROST Unit: 1	Final depth BGS: 9.75 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

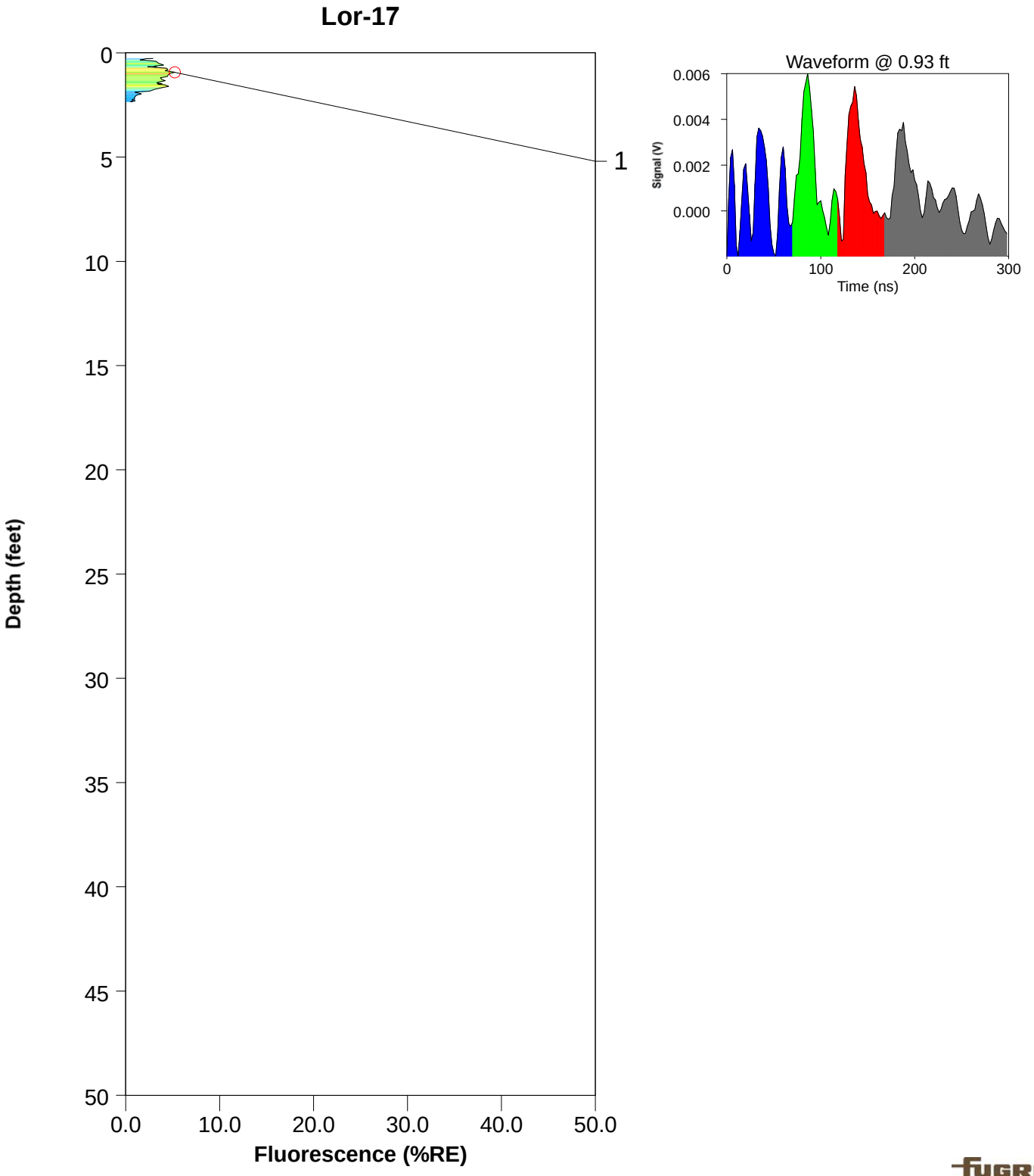
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 12:37:25 PM	Max fluorescence: 3.96% @ 0.03 ft
ROST Unit: 1	Final depth BGS: 3.20 ft



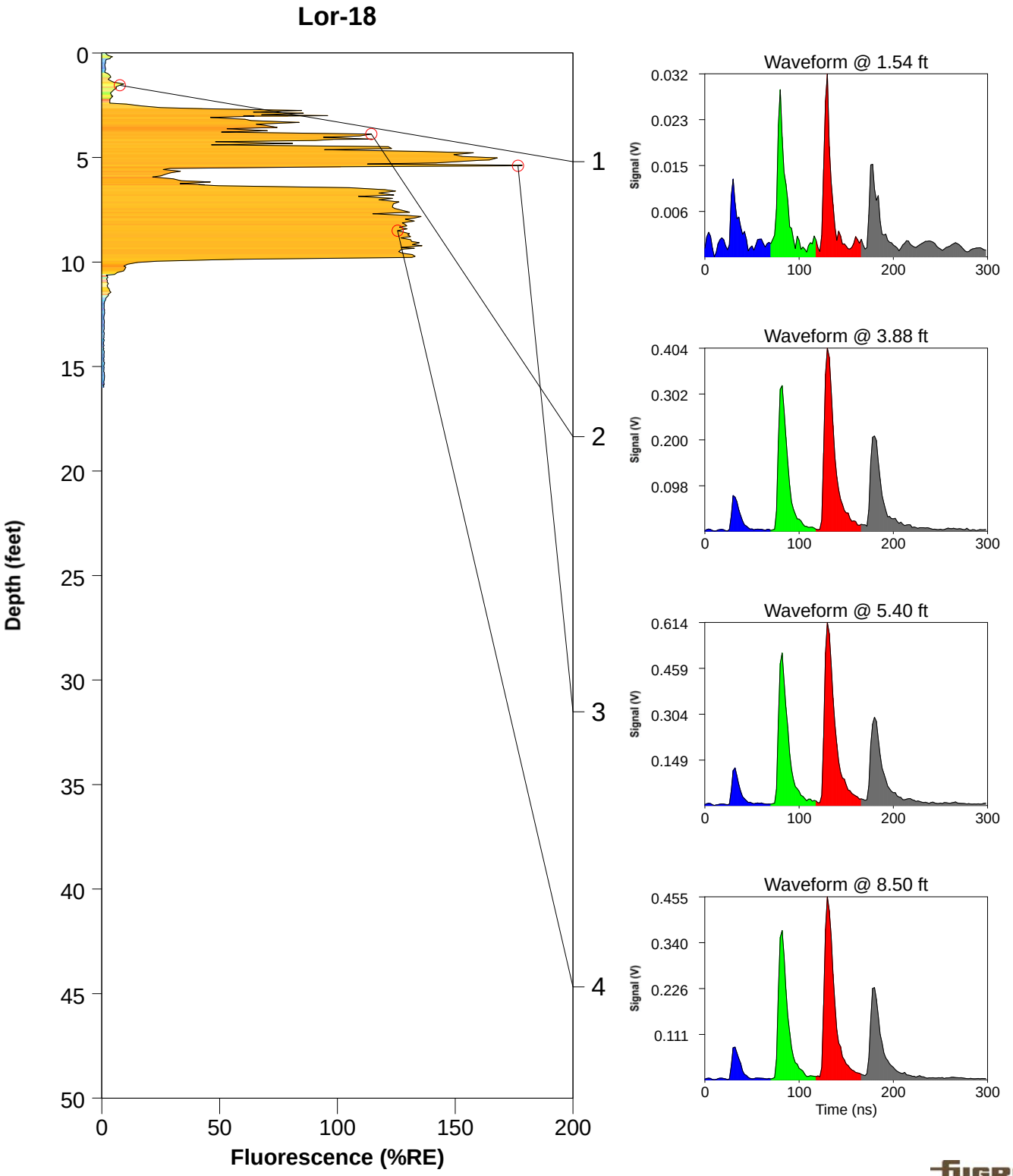
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 1:32:44 PM	Max fluorescence: 5.23% @ 0.93 ft
ROST Unit: 1	Final depth BGS: 2.35 ft



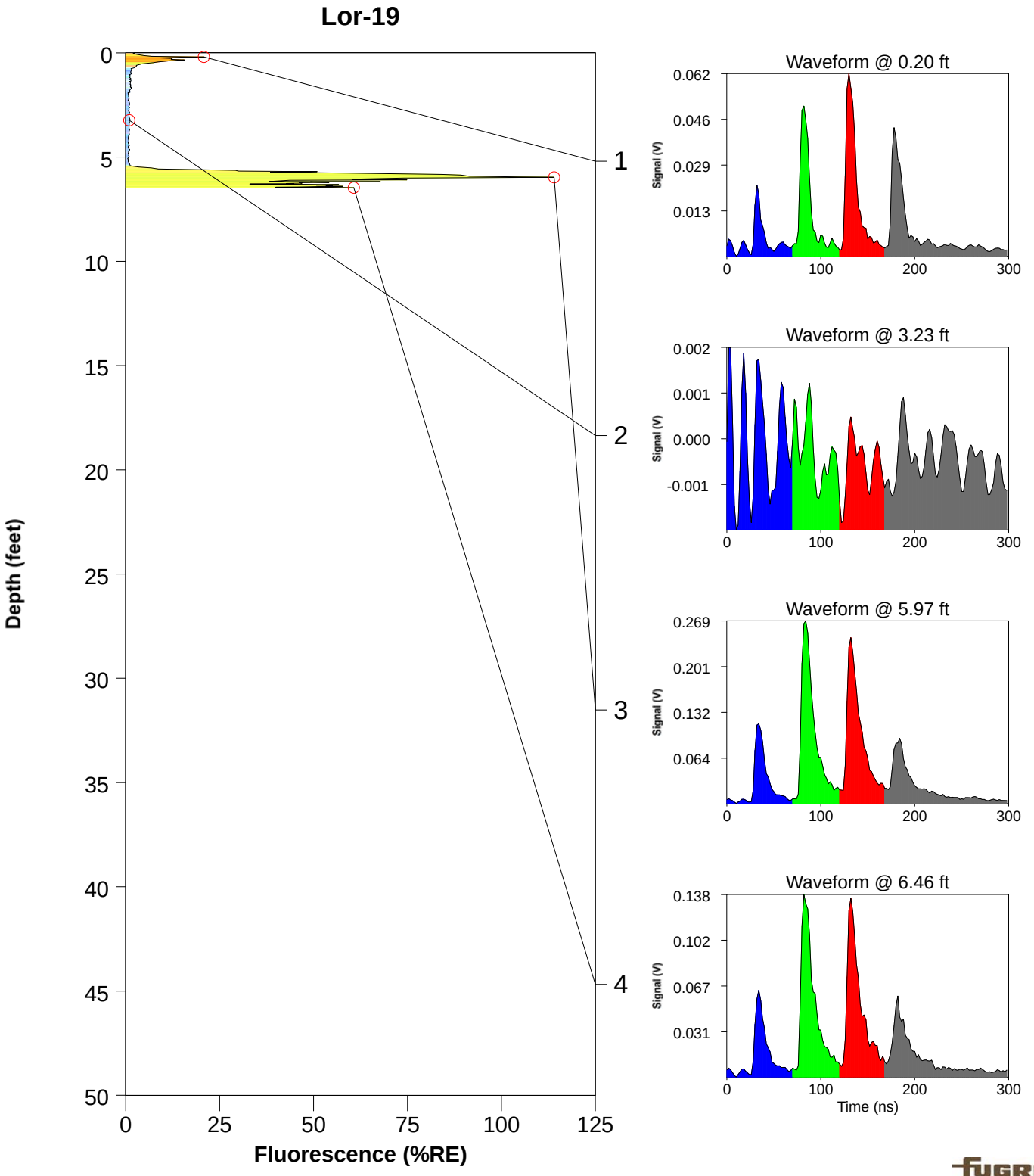
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 2:12:00 PM	Max fluorescence: 178.46% @ 5.37 ft
ROST Unit: 1	Final depth BGS: 16.00 ft



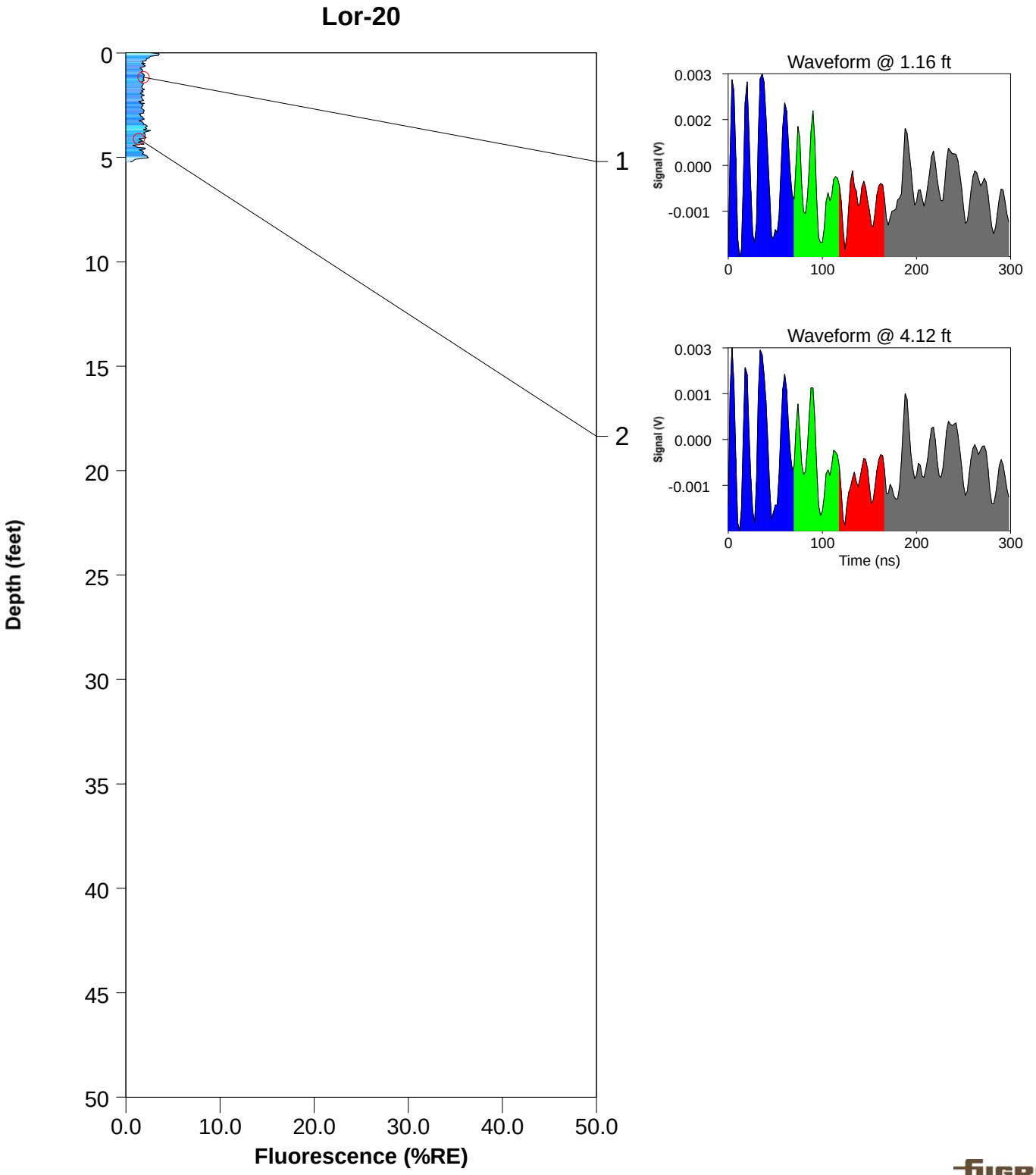
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 3:16:34 PM	Max fluorescence: 114.02% @ 5.97 ft
ROST Unit: 1	Final depth BGS: 6.46 ft



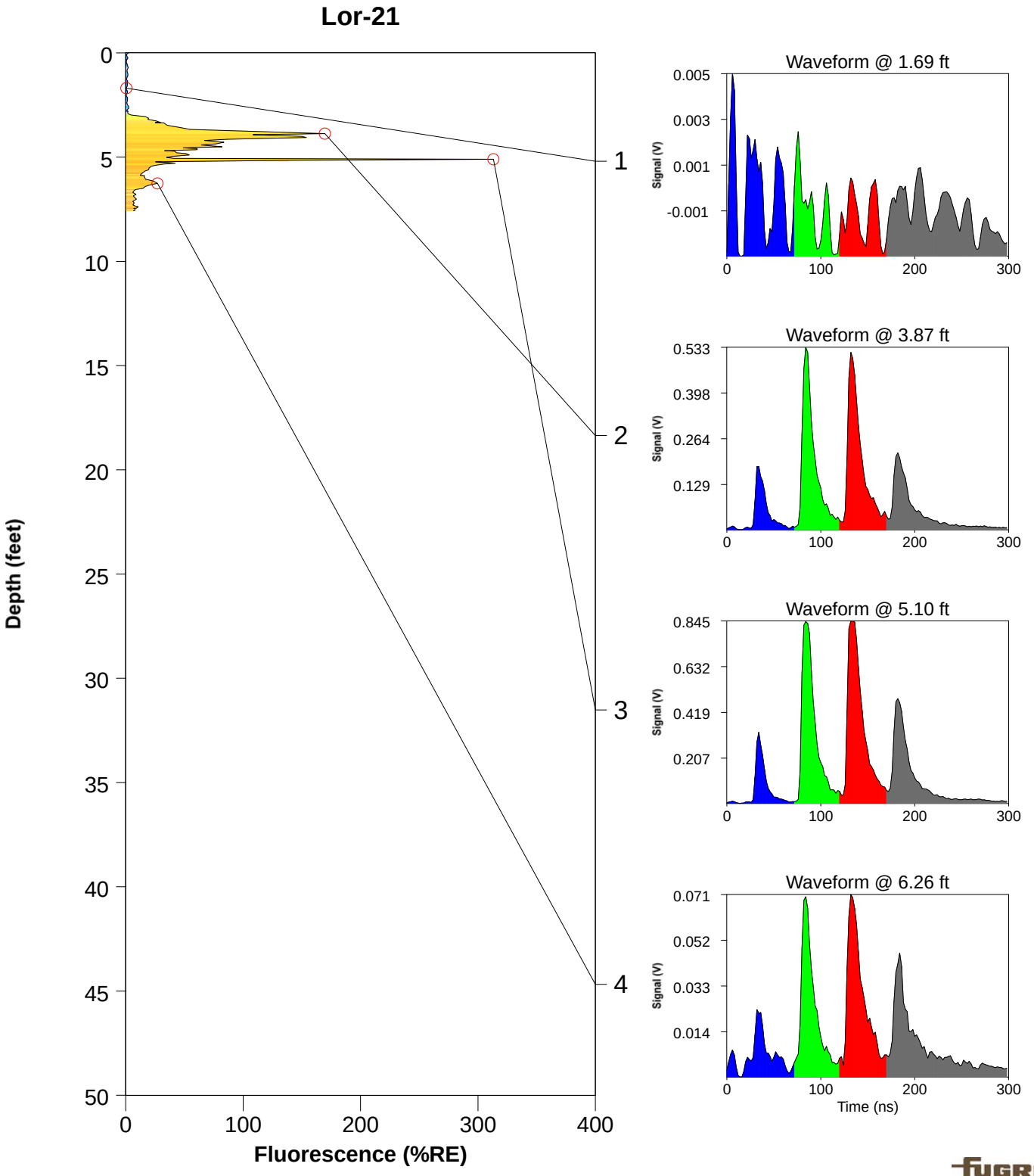
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 3:41:09 PM	Max fluorescence: 3.55% @ 0.04 ft
ROST Unit: 1	Final depth BGS: 5.22 ft



ROST Fluorescence Response Data

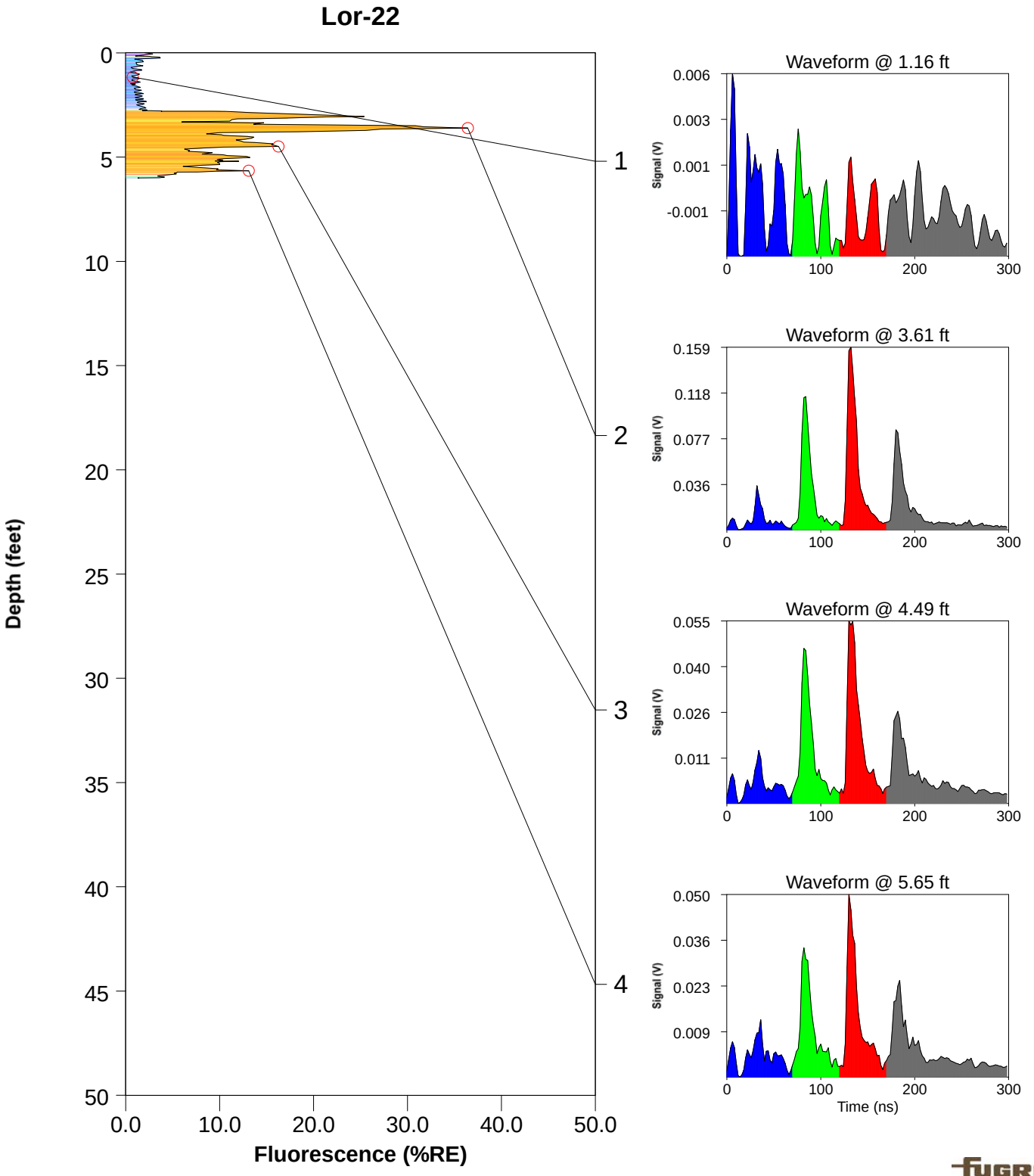
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:05:48 AM	Max fluorescence: 313.16% @ 5.10 ft
ROST Unit: 1	Final depth BGS: 7.57 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

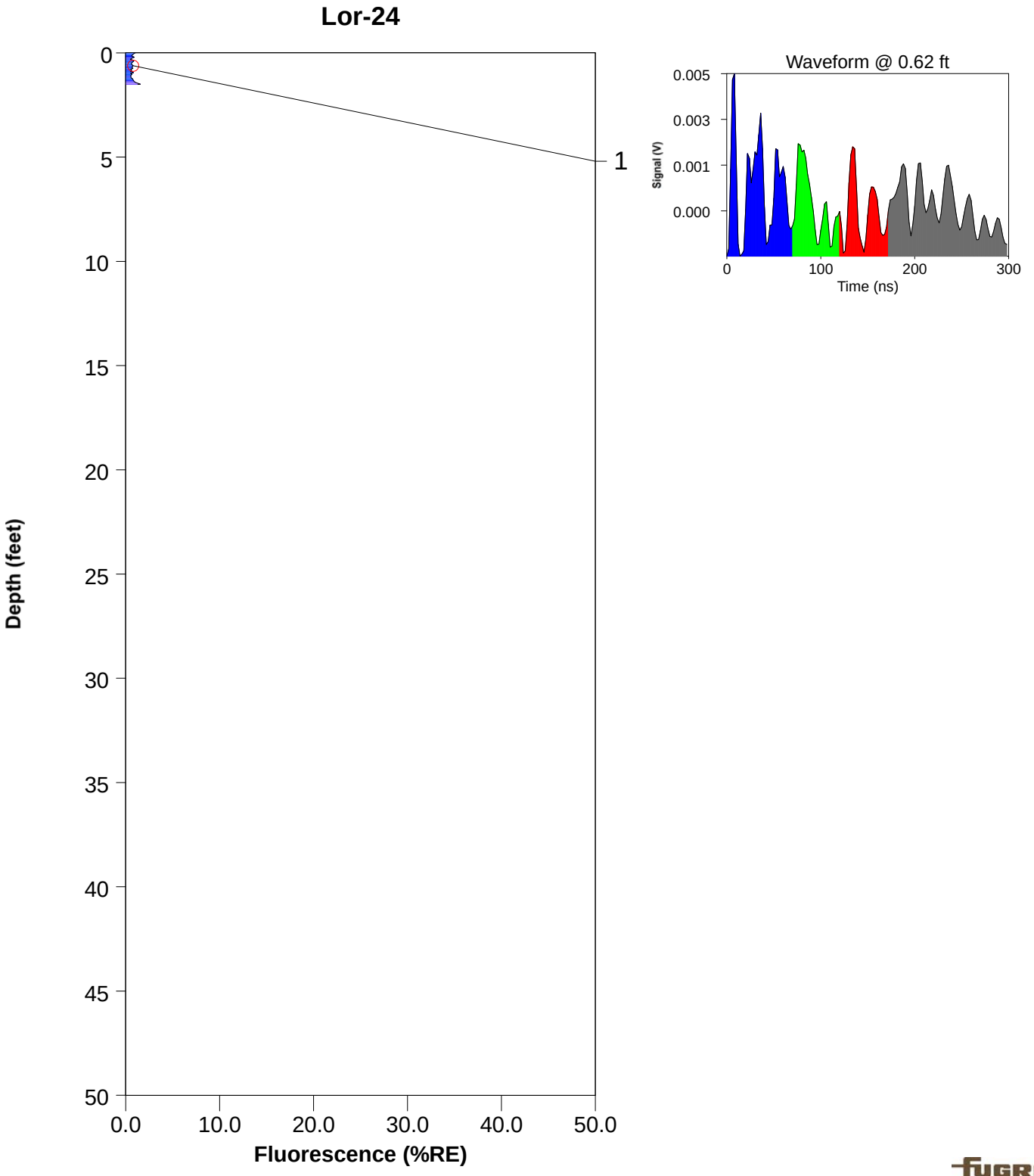
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:39:38 AM	Max fluorescence: 36.42% @ 3.61 ft
ROST Unit: 1	Final depth BGS: 6.00 ft



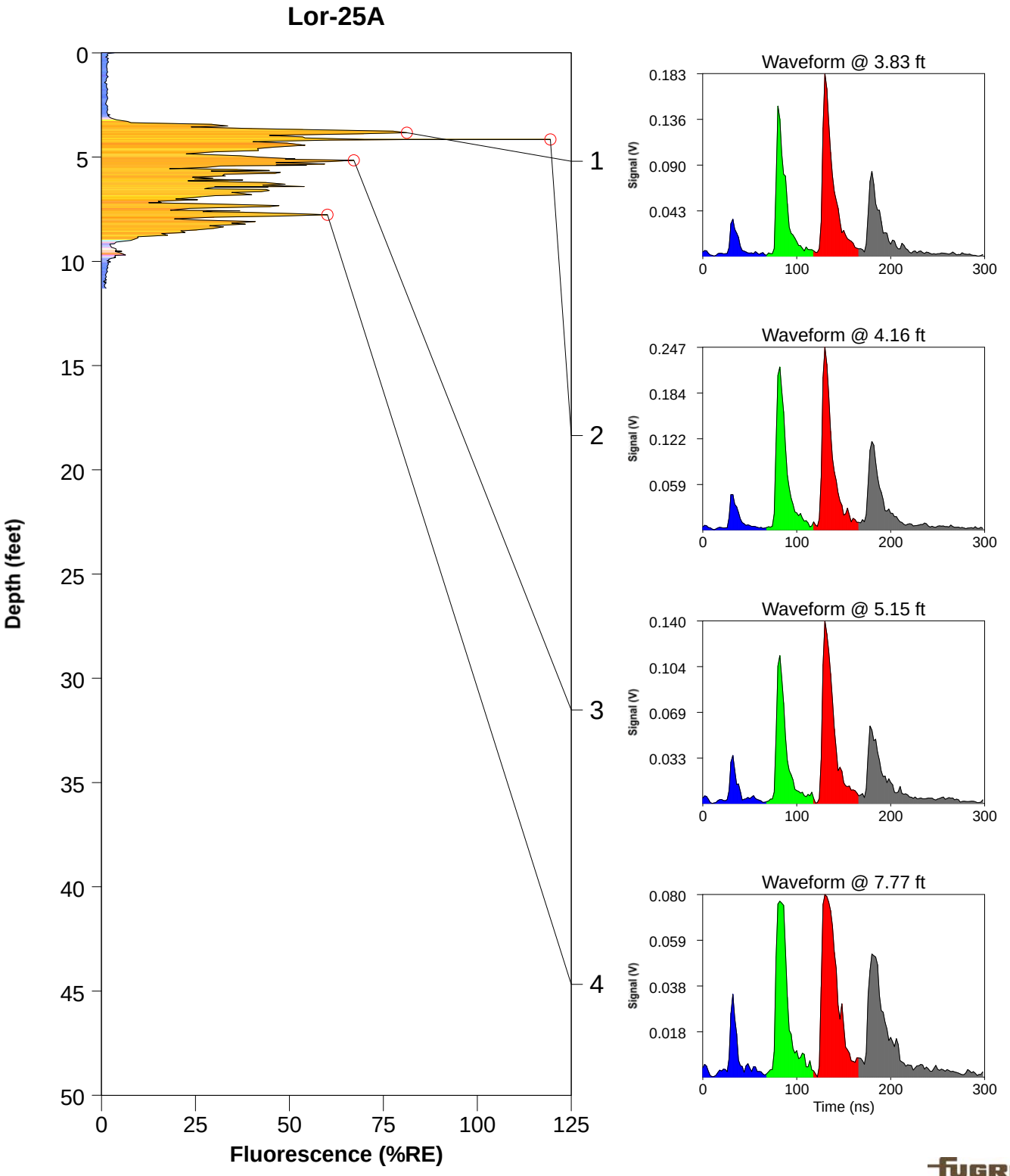
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:43:28 AM	Max fluorescence: 1.55% @ 1.50 ft
ROST Unit: 1	Final depth BGS: 1.52 ft



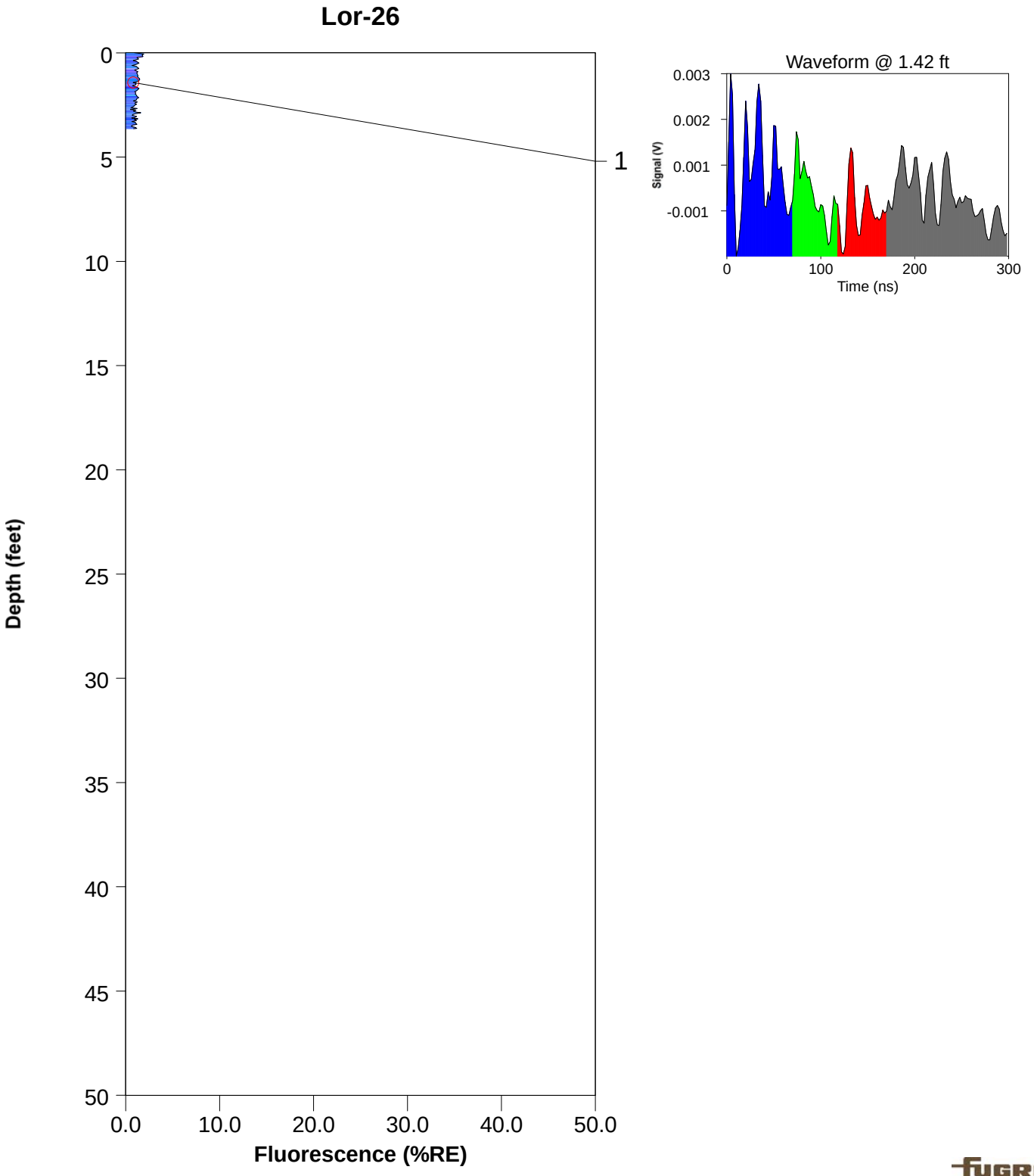
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 12:57:33 PM	Max fluorescence: 119.43% @ 4.16 ft
ROST Unit: 1	Final depth BGS: 11.29 ft



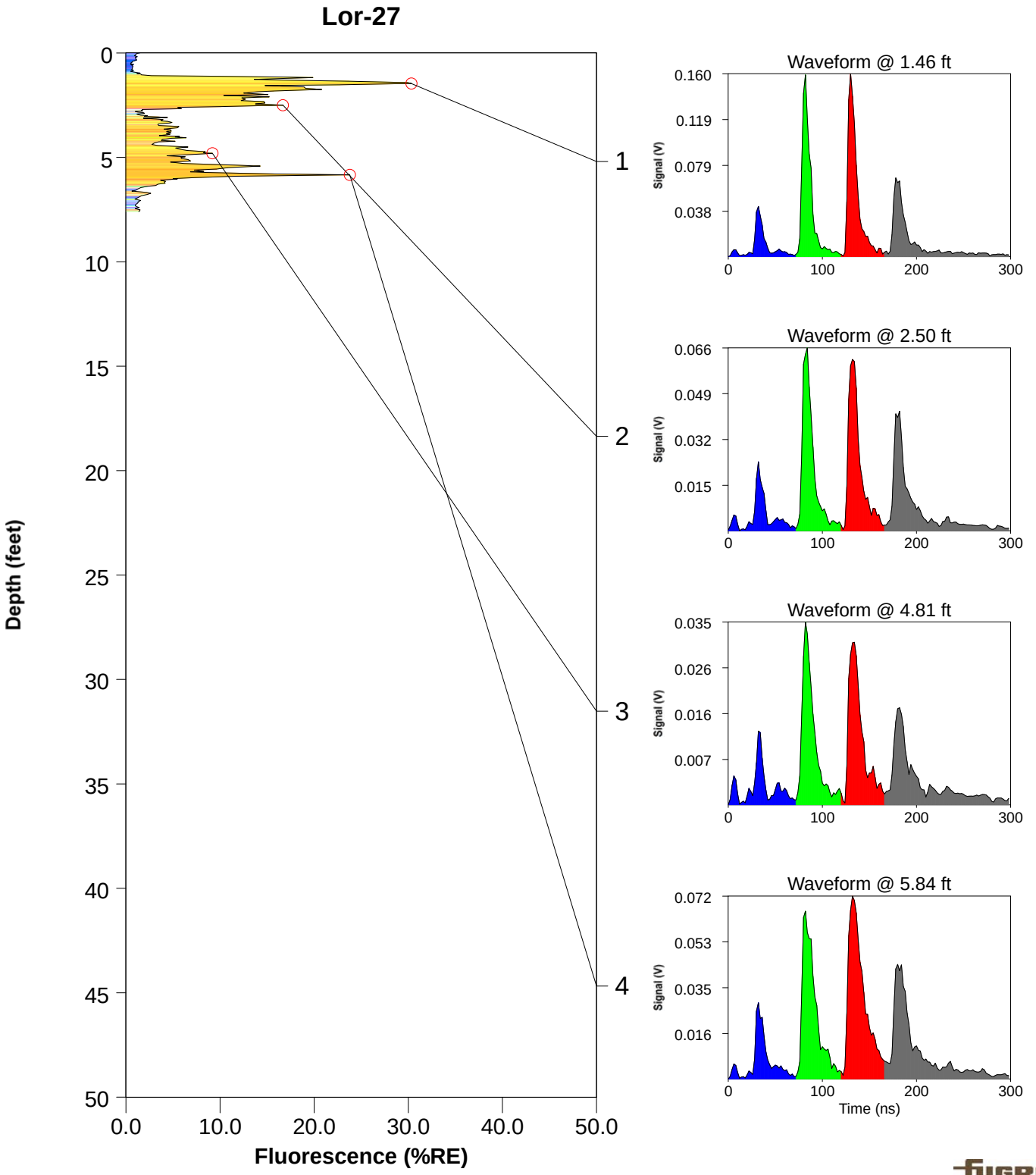
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:17:00 AM	Max fluorescence: 1.92% @ 0.06 ft
ROST Unit: 1	Final depth BGS: 3.63 ft



ROST Fluorescence Response Data

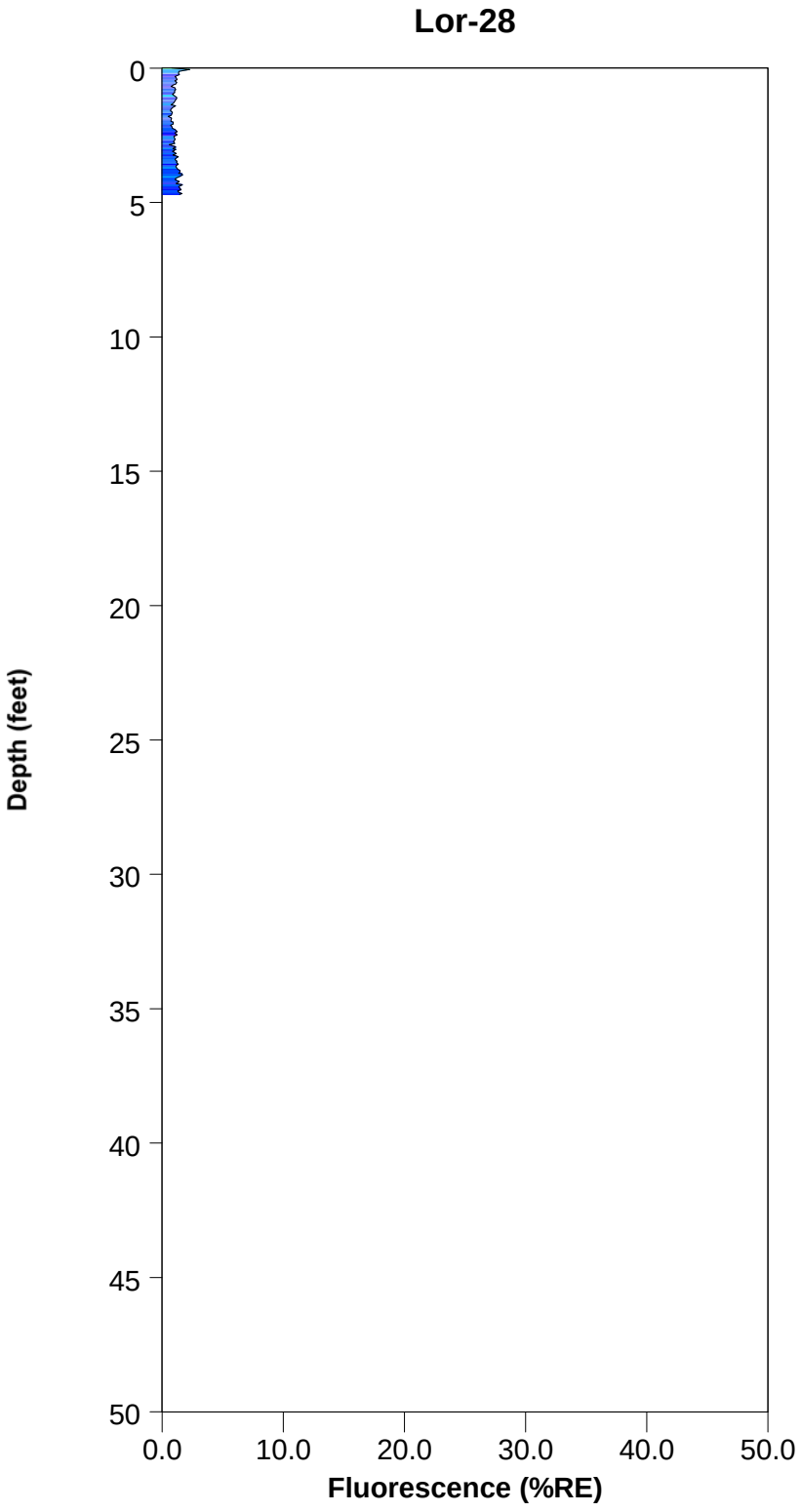
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:34:41 AM	Max fluorescence: 30.33% @ 1.46 ft
ROST Unit: 1	Final depth BGS: 7.59 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

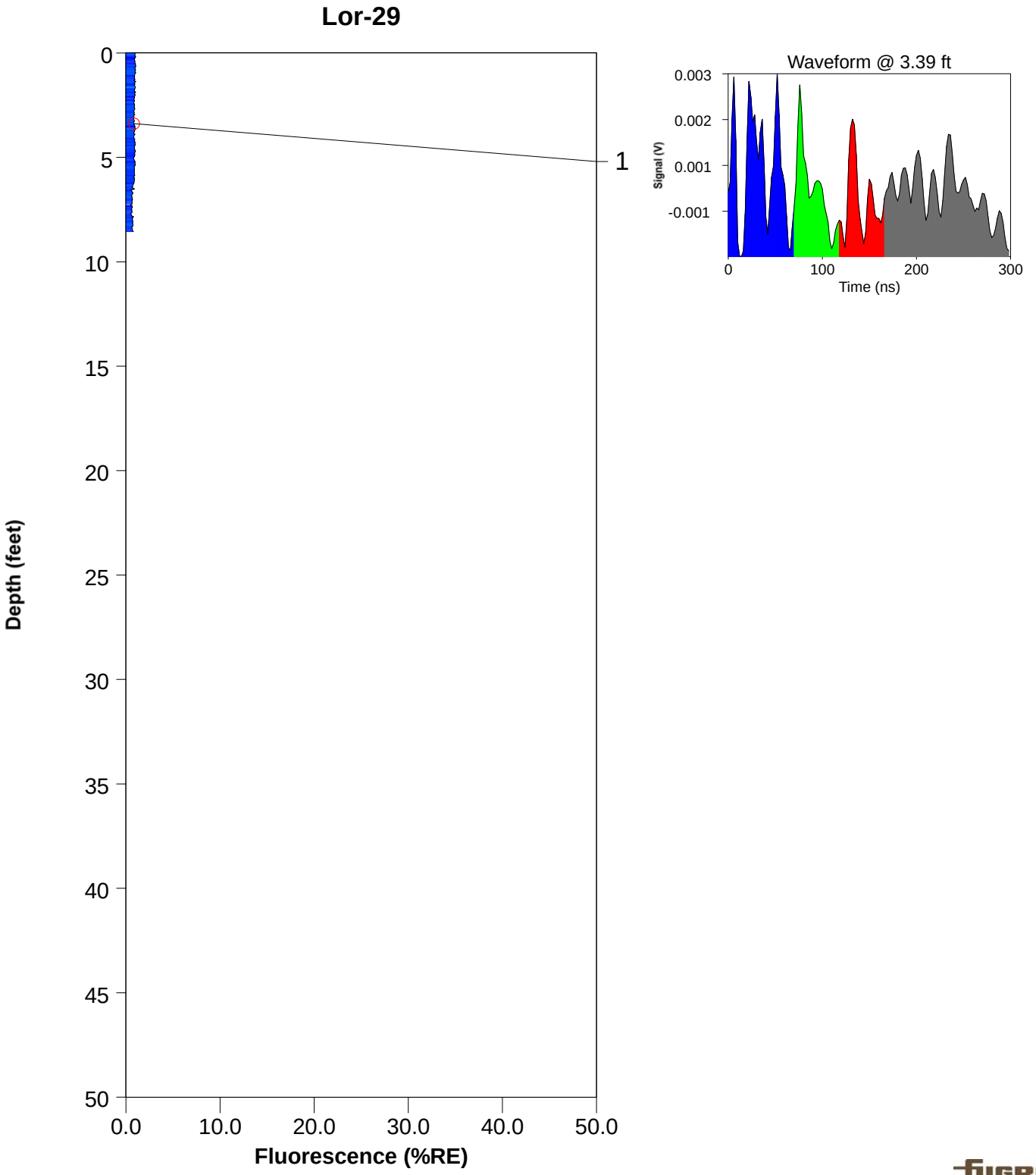
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 11:03:27 AM	Max fluorescence: 2.27% @ 0.05 ft
ROST Unit: 1	Final depth BGS: 4.70 ft



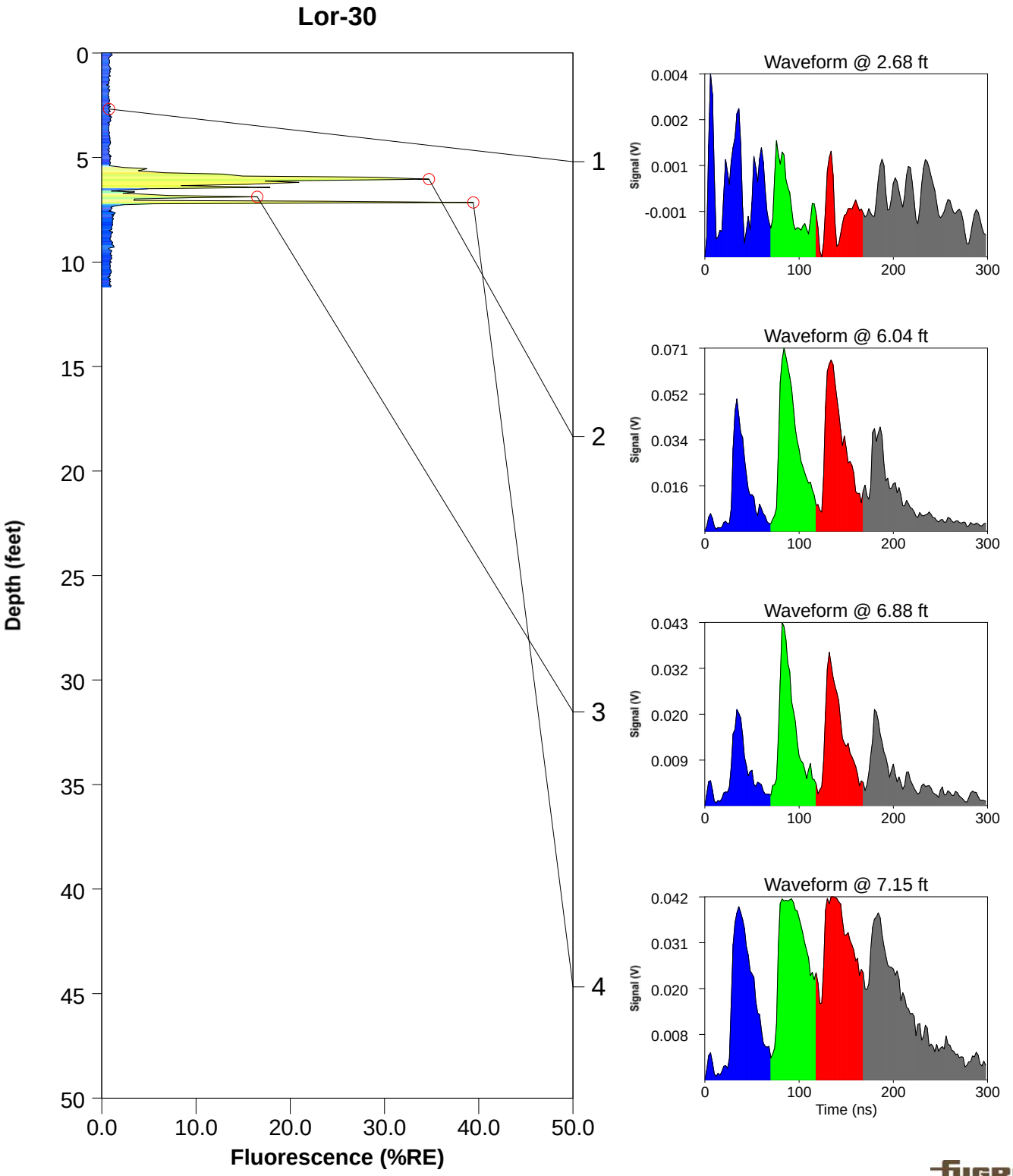
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 11:22:36 AM	Max fluorescence: 1.04% @ 0.00 ft
ROST Unit: 1	Final depth BGS: 8.56 ft



ROST Fluorescence Response Data

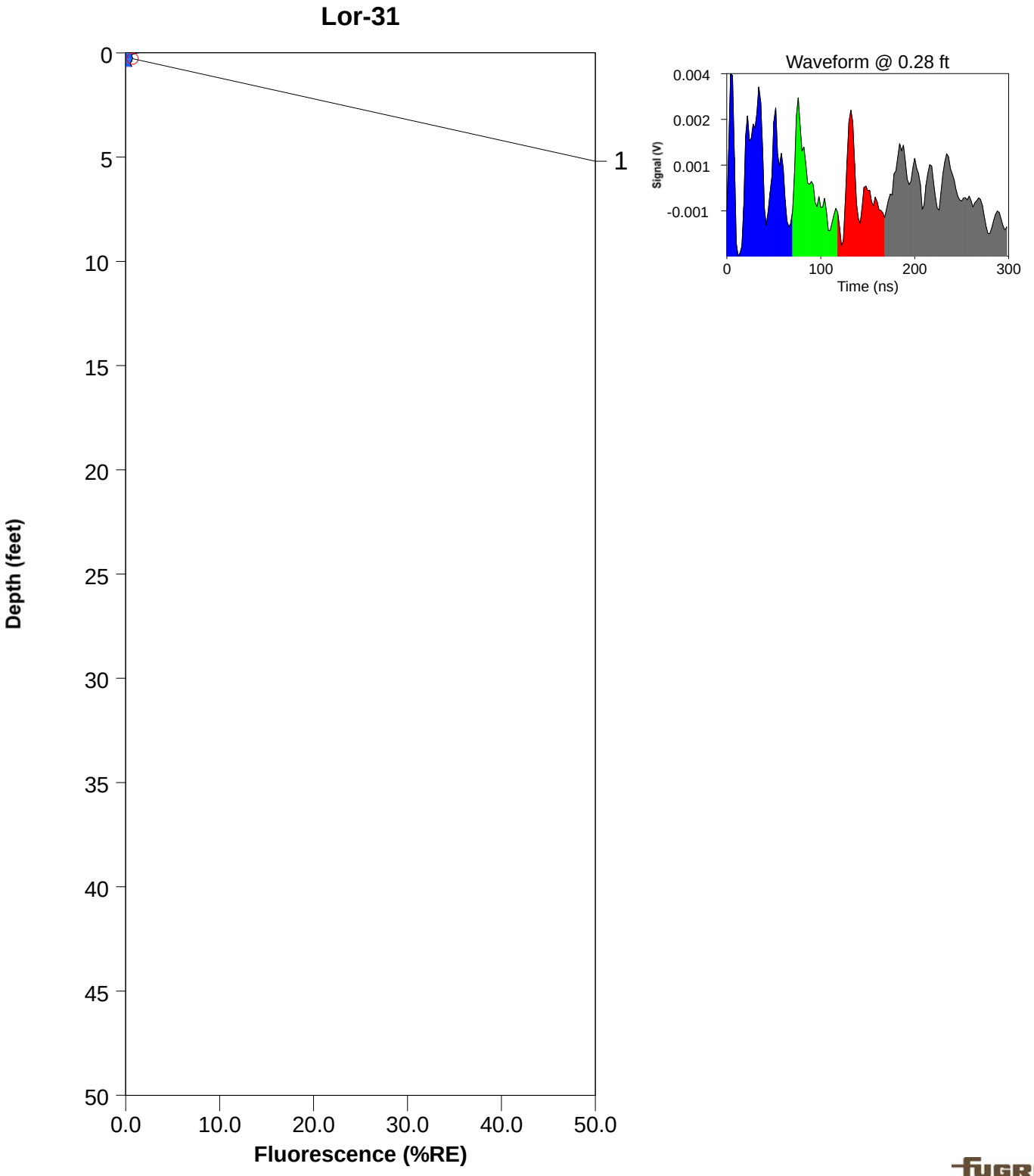
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 11:50:08 AM	Max fluorescence: 39.42% @ 7.15 ft
ROST Unit: 1	Final depth BGS: 11.19 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

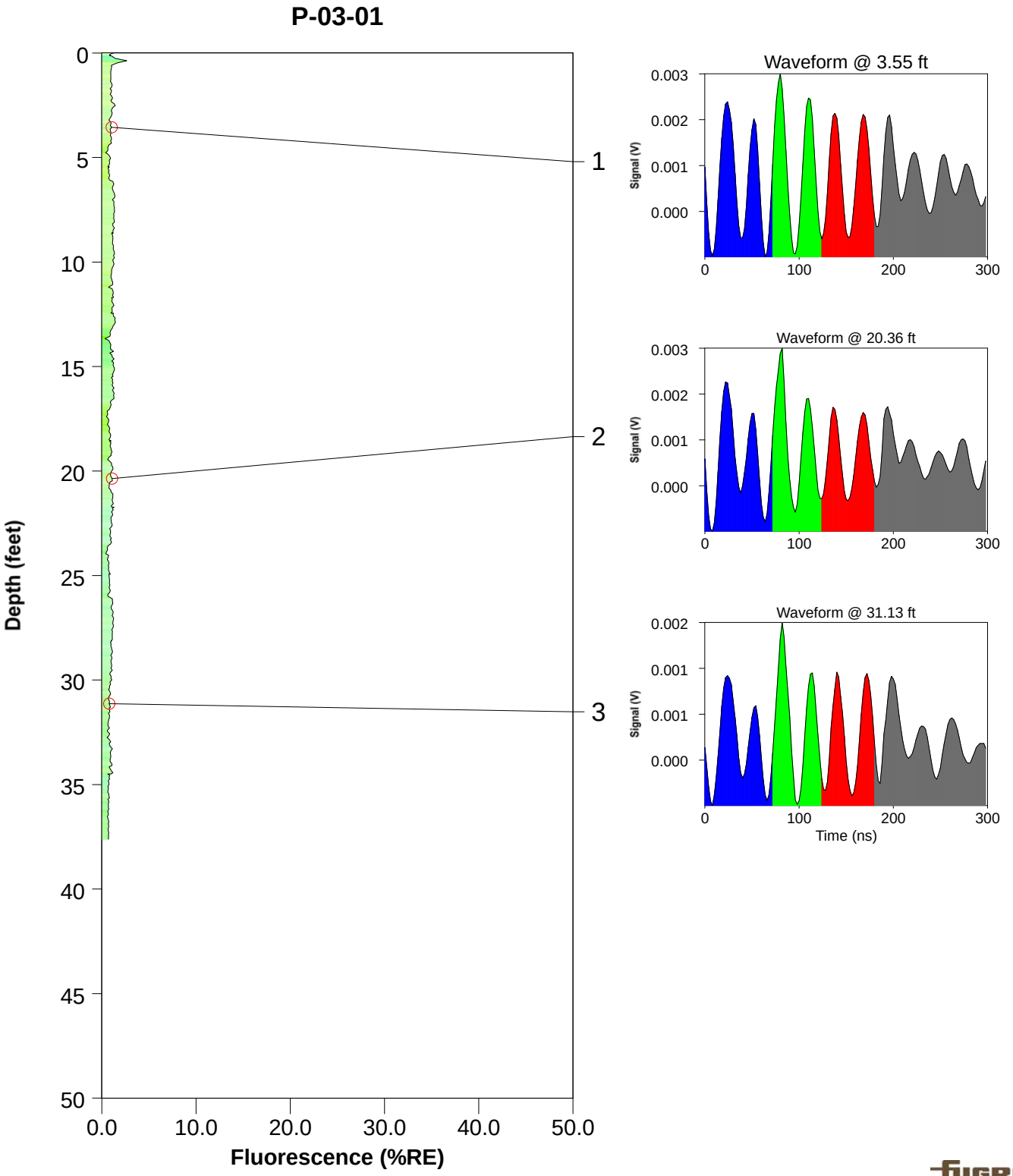
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 12:35:56 PM	Max fluorescence: 1.41% @ 0.00 ft
ROST Unit: 1	Final depth BGS: 0.66 ft



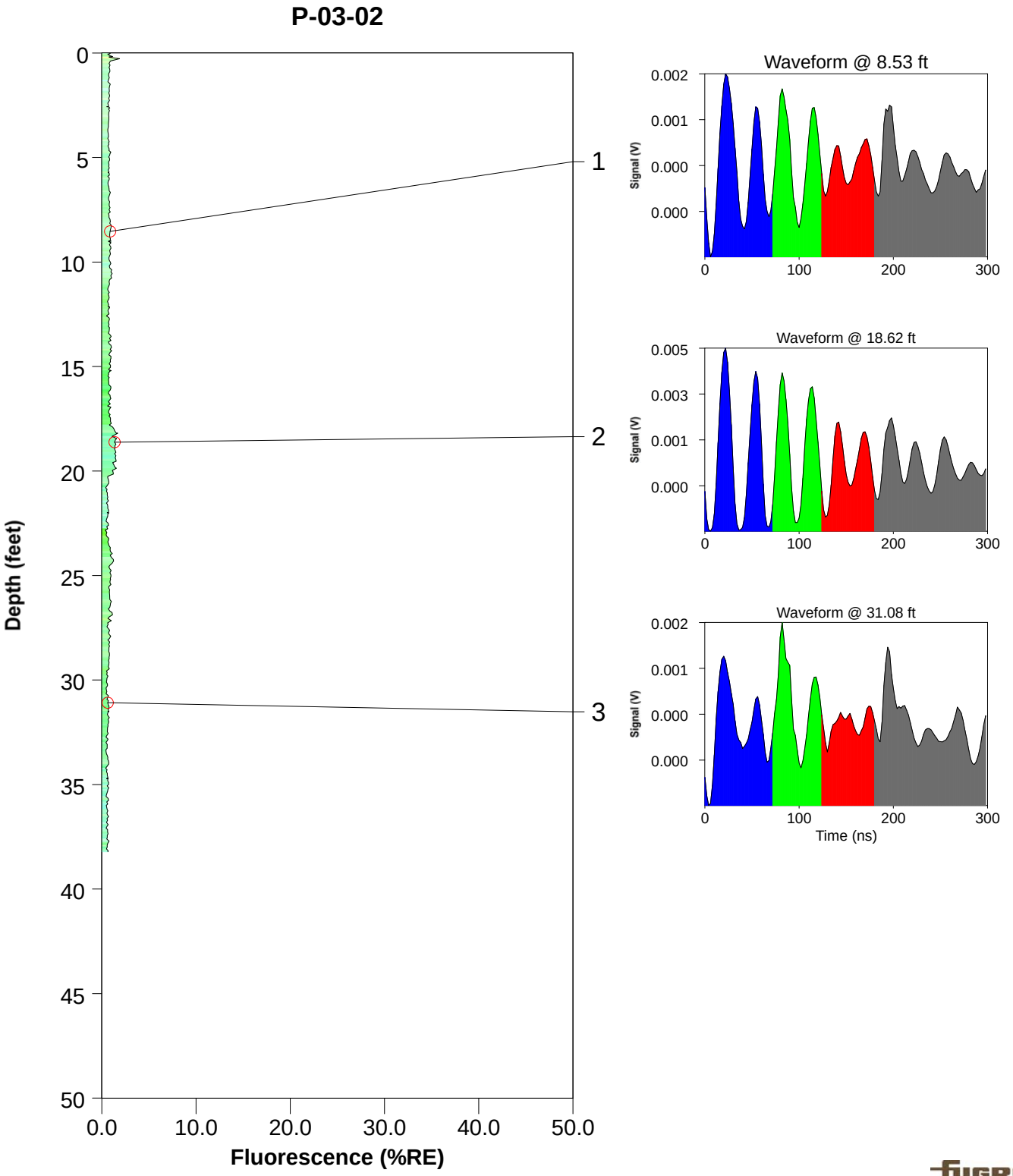
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 12:15:30 PM	Max fluorescence: 2.63% @ 0.37 ft
ROST Unit: 2	Final depth BGS: 37.62 ft



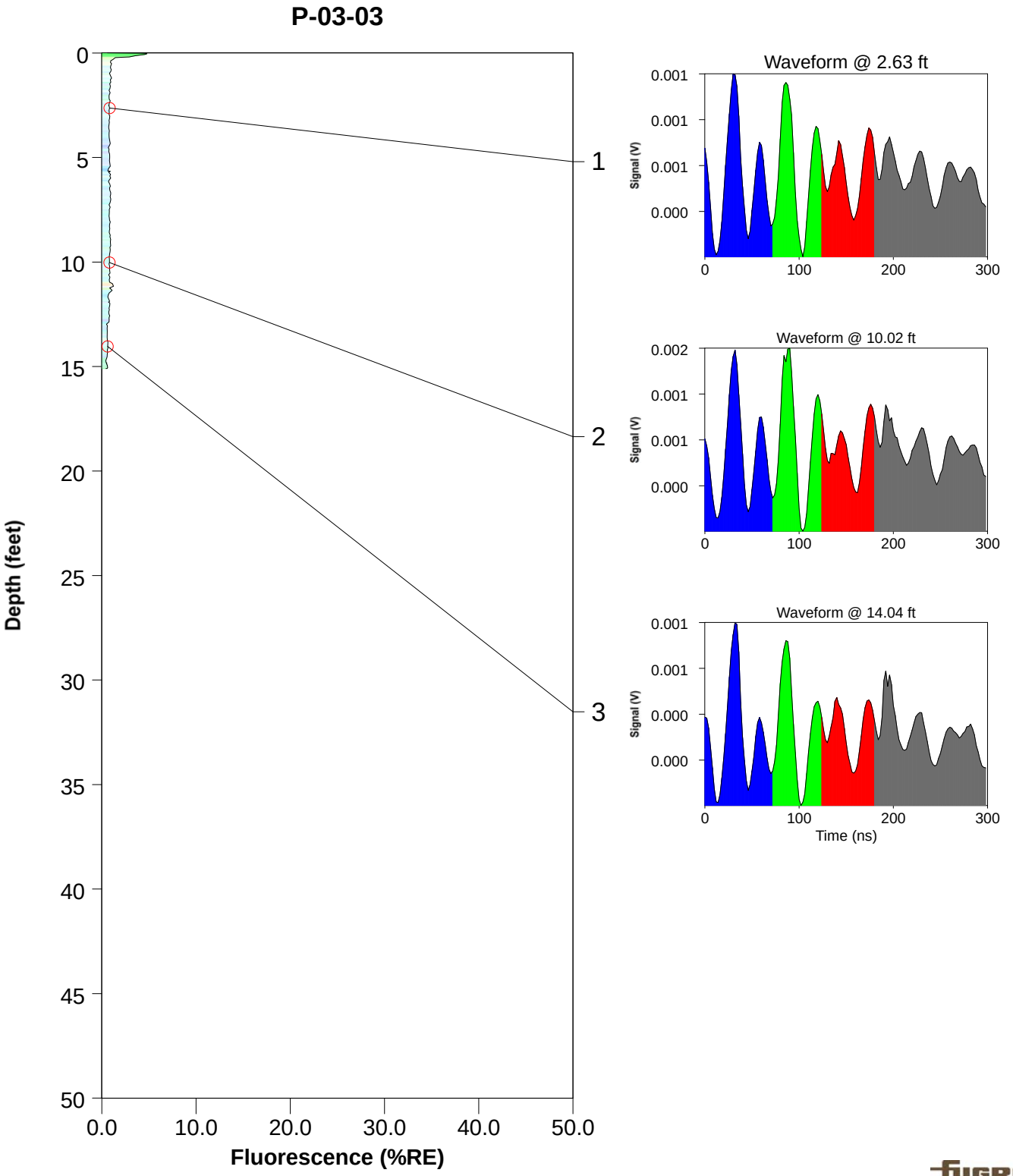
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 11:46:17 AM	Max fluorescence: 1.88% @ 0.27 ft
ROST Unit: 2	Final depth BGS: 38.22 ft



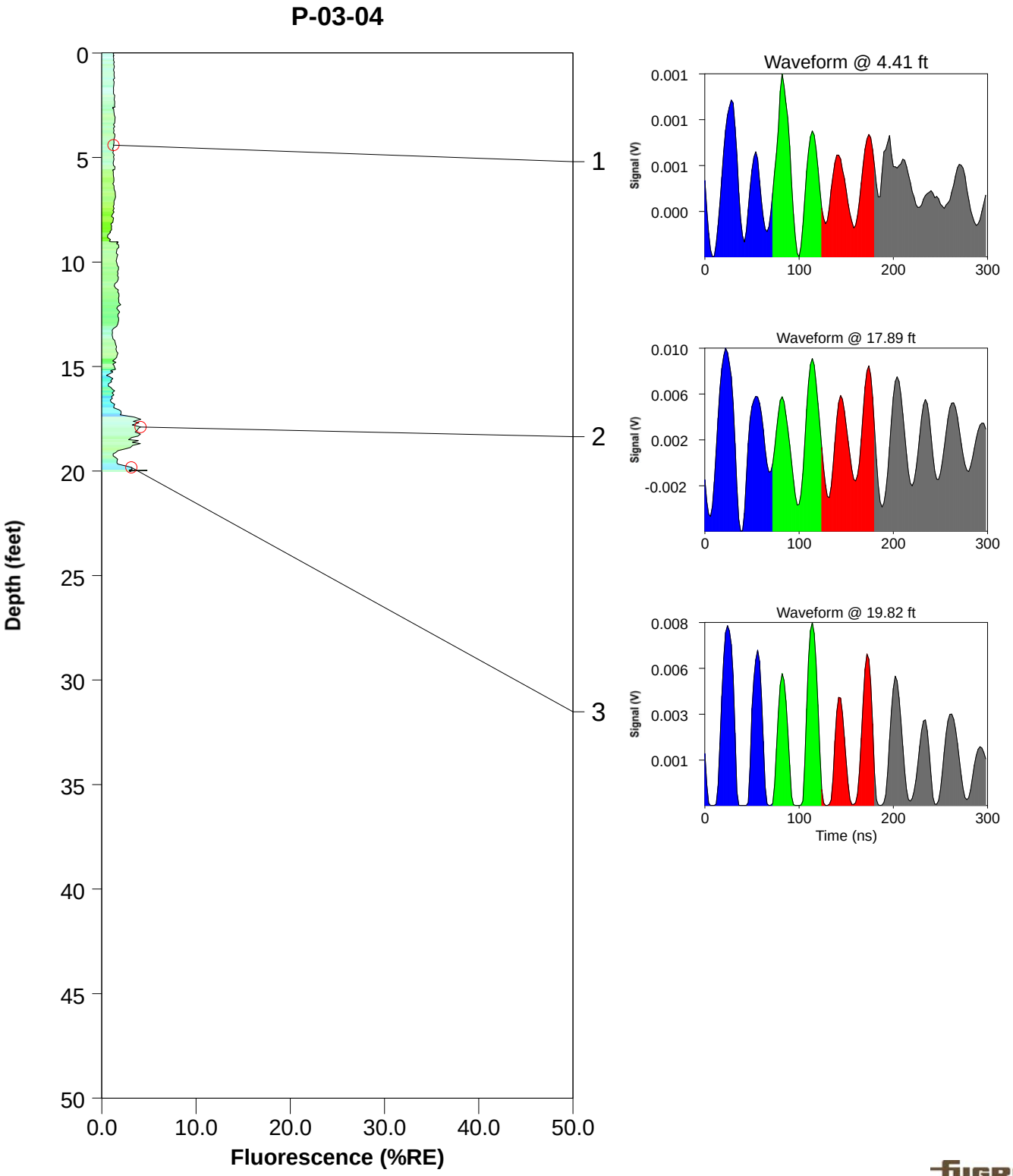
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 11:24:41 AM	Max fluorescence: 4.78% @ 0.03 ft
ROST Unit: 2	Final depth BGS: 15.09 ft



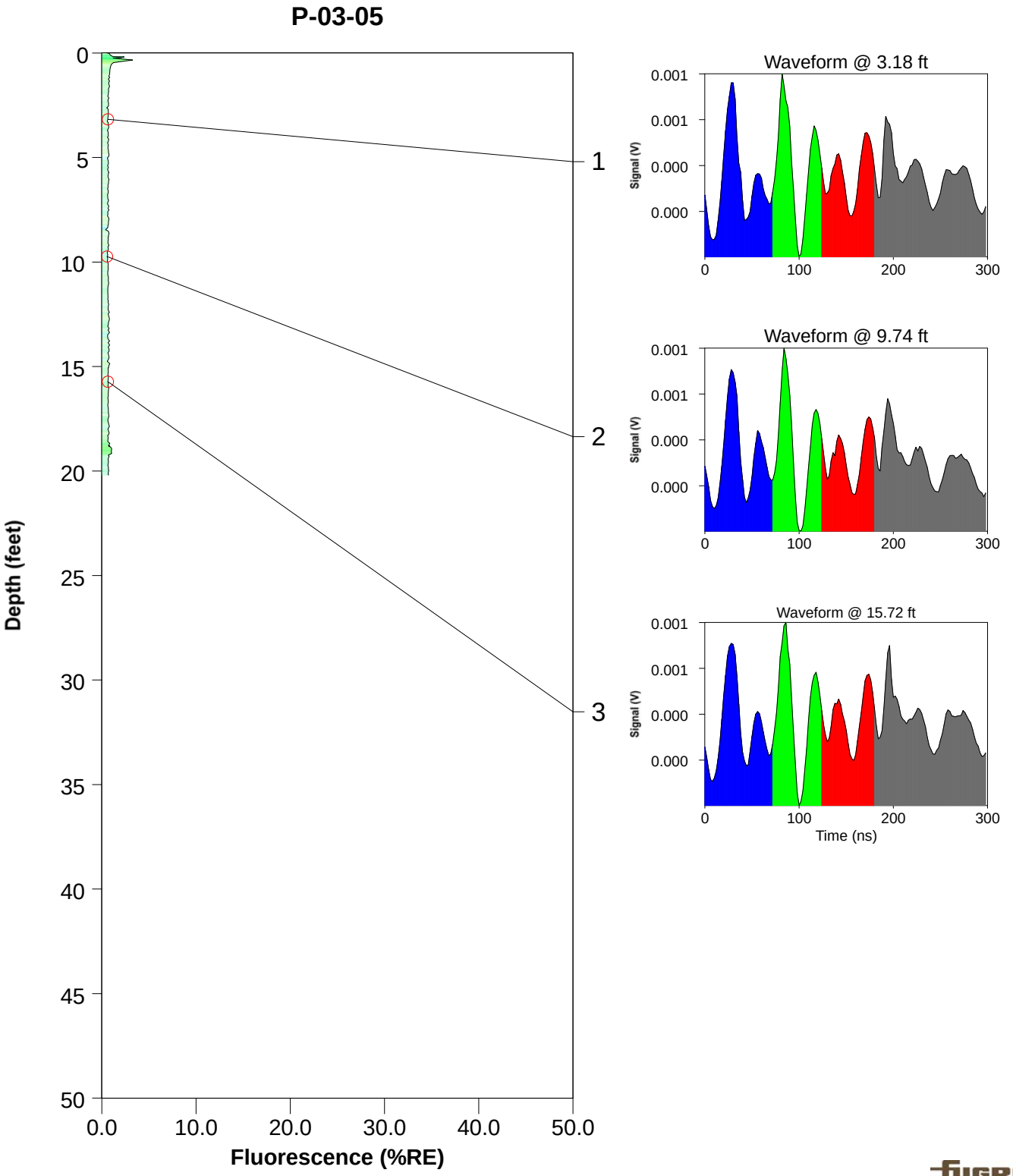
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 1:13:12 PM	Max fluorescence: 4.81% @ 19.97 ft
ROST Unit: 2	Final depth BGS: 20.02 ft



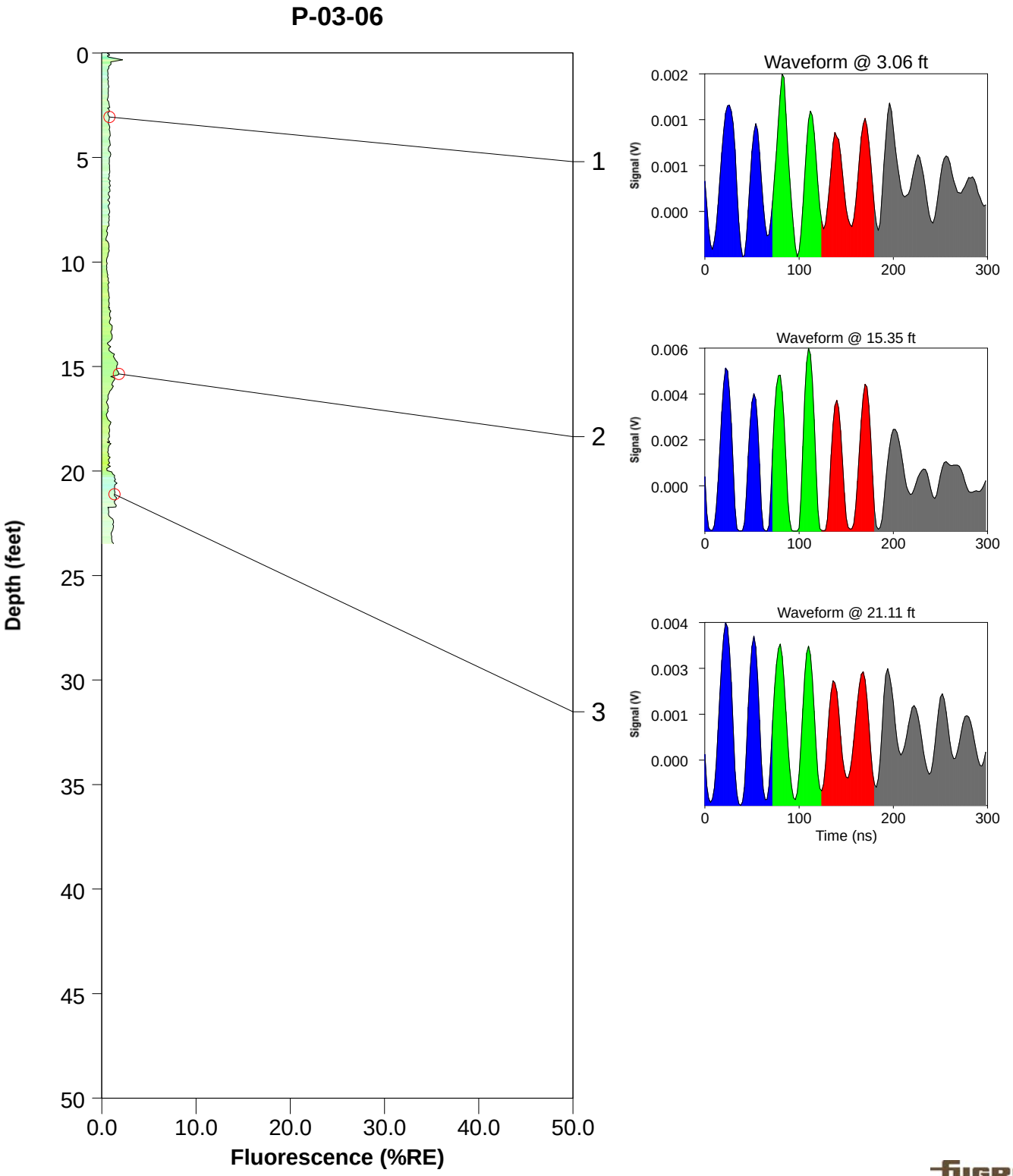
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 10:57:38 AM	Max fluorescence: 3.26% @ 0.34 ft
ROST Unit: 2	Final depth BGS: 20.19 ft



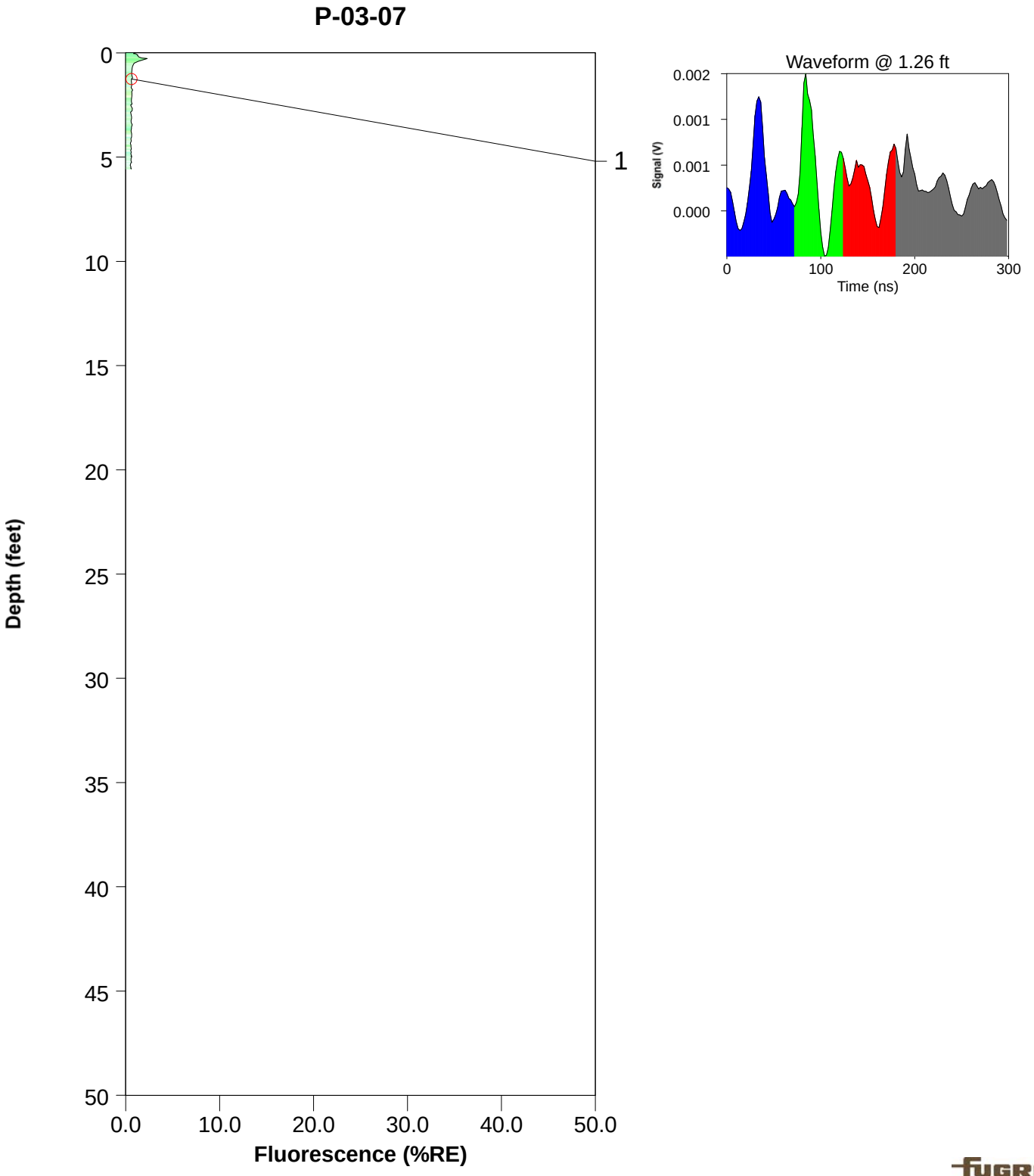
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 12:49:50 PM	Max fluorescence: 2.20% @ 0.33 ft
ROST Unit: 2	Final depth BGS: 23.47 ft



ROST Fluorescence Response Data

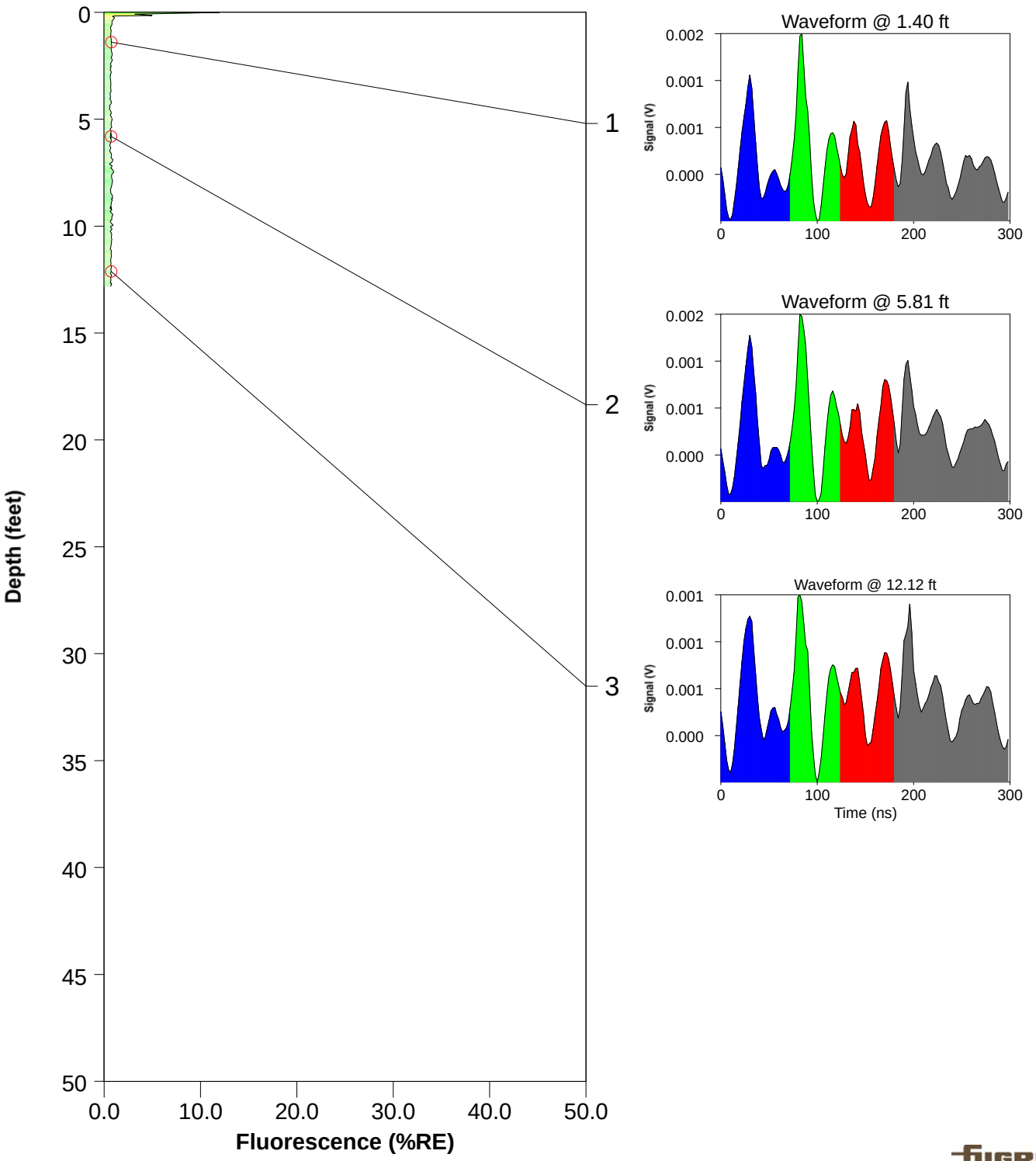
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 10:27:56 AM	Max fluorescence: 2.28% @ 0.28 ft
ROST Unit: 2	Final depth BGS: 5.56 ft



ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 10:37:53 AM	Max fluorescence: 11.97% @ 0.01 ft
ROST Unit: 2	Final depth BGS: 12.81 ft

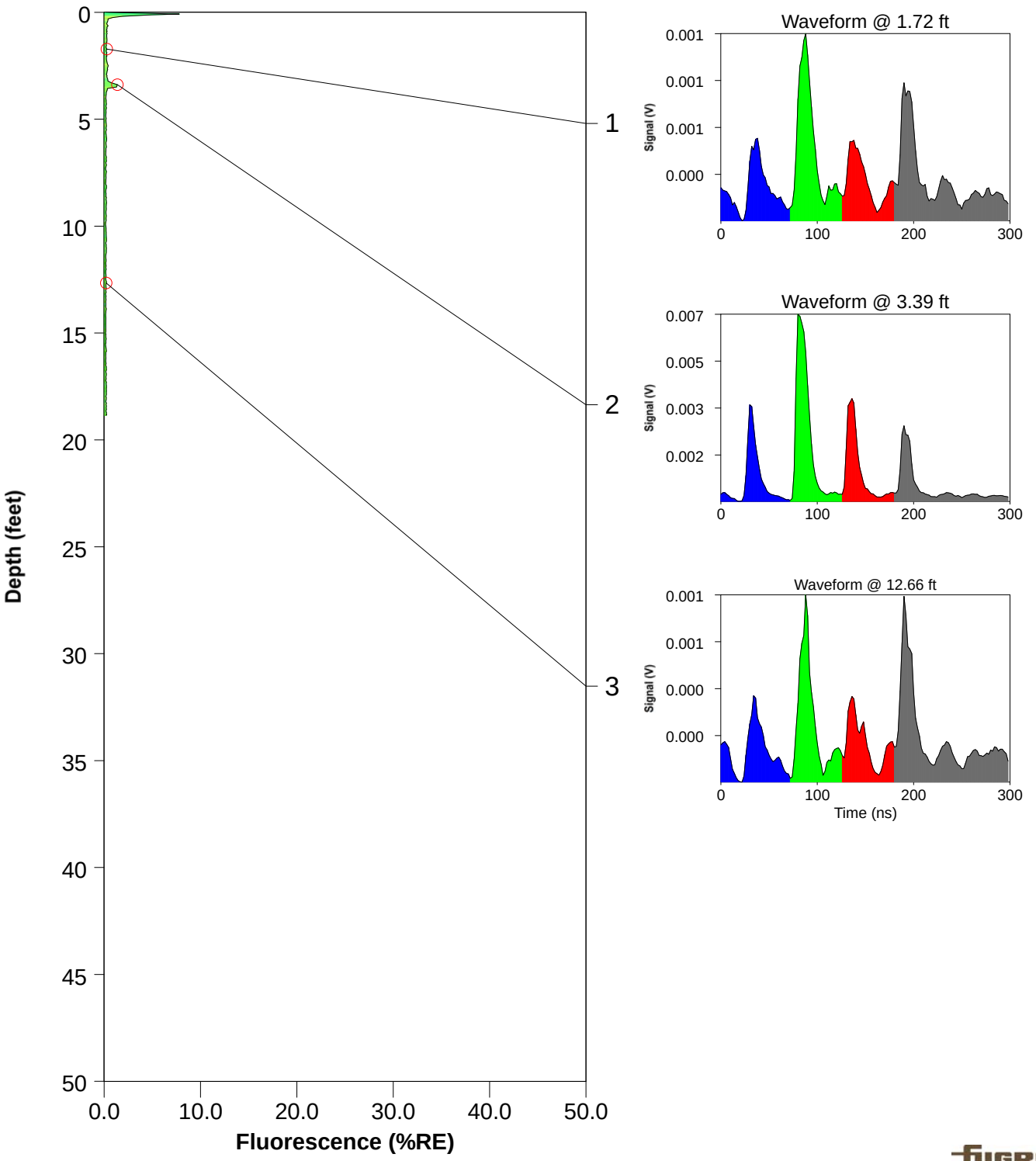
P-03-07A



ROST Fluorescence Response Data

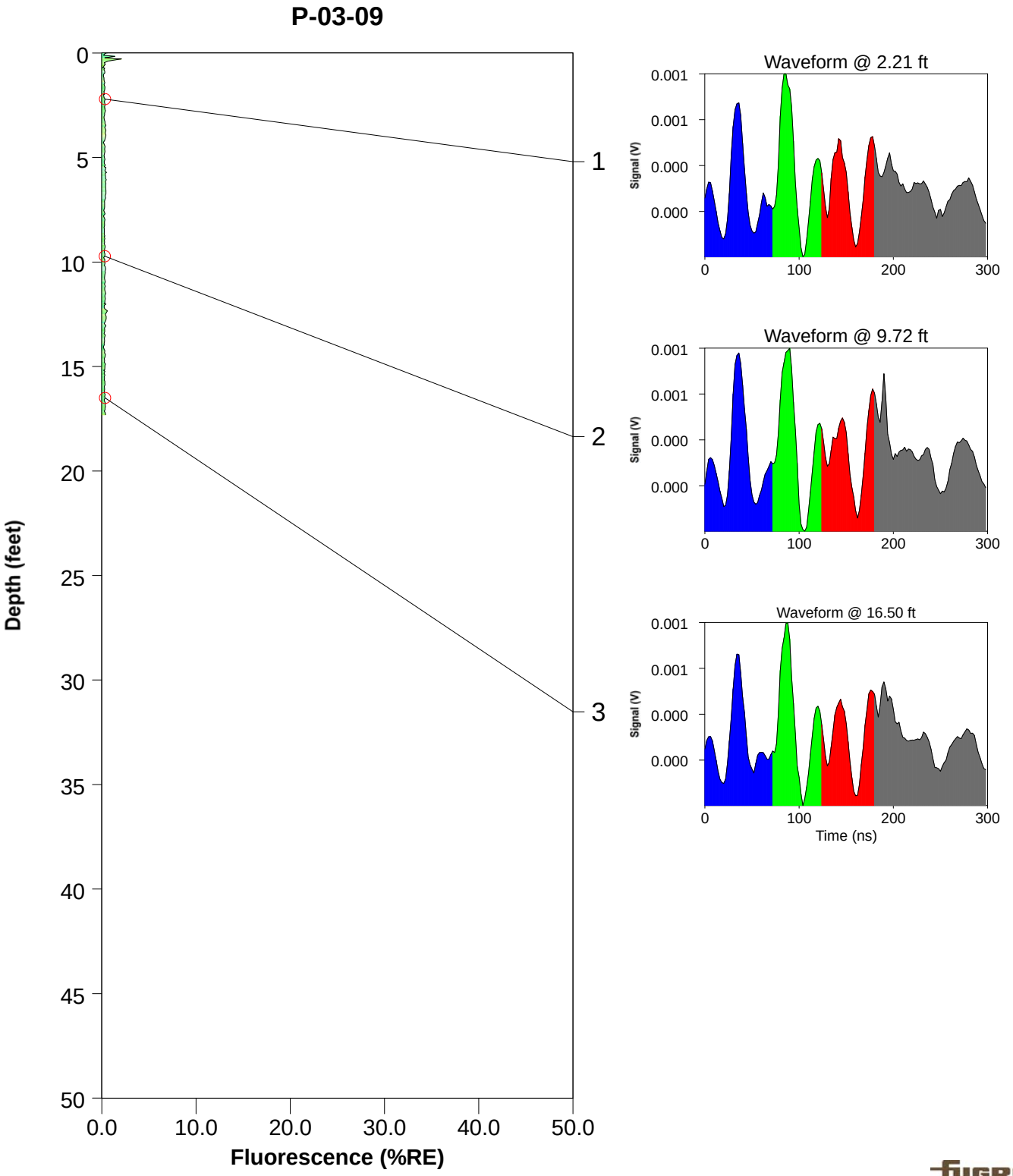
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 2:06:25 PM	Max fluorescence: 7.80% @ 0.08 ft
ROST Unit: 2	Final depth BGS: 18.84 ft

P-03-08



ROST Fluorescence Response Data

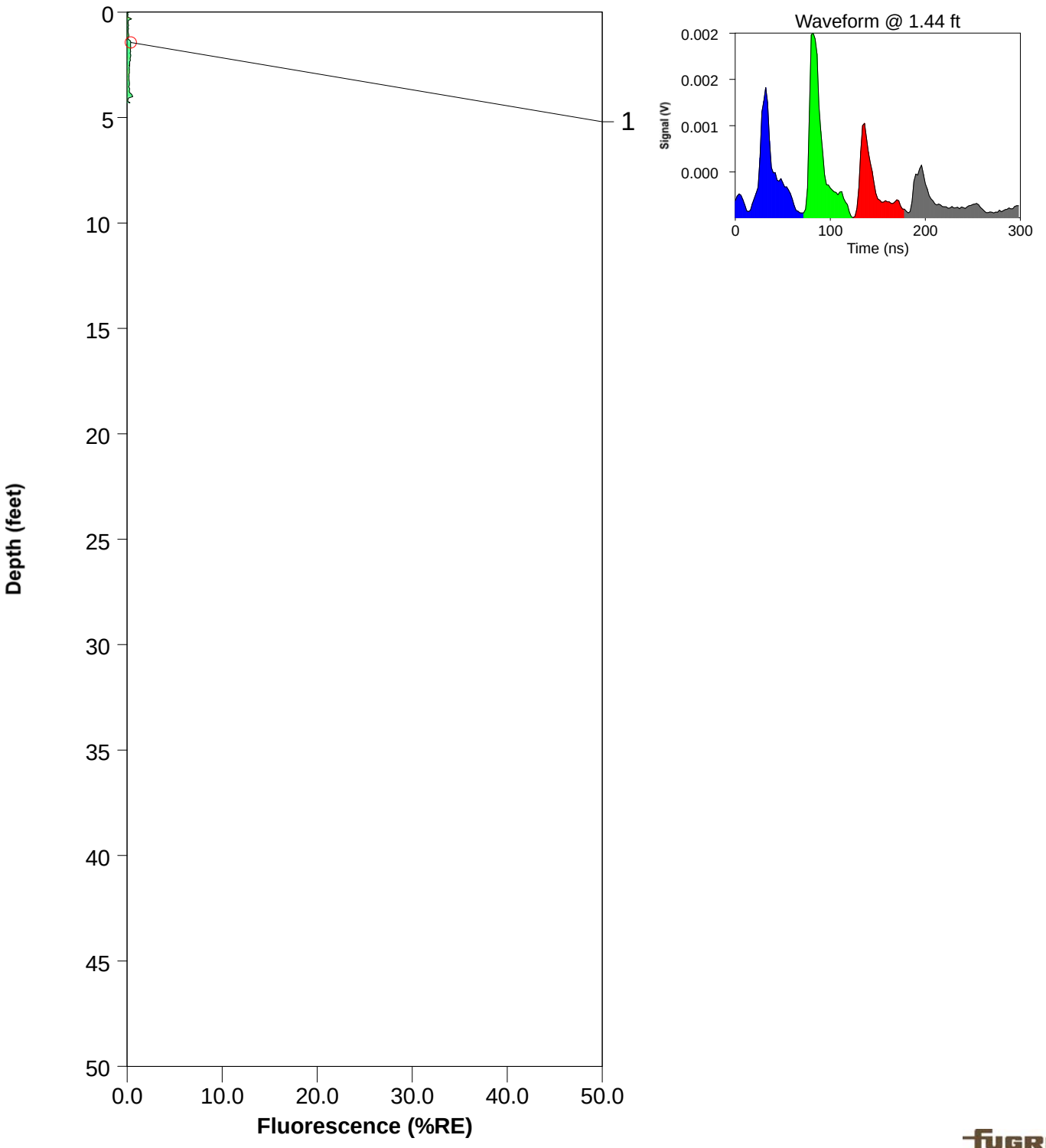
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 1:40:08 PM	Max fluorescence: 2.08% @ 0.28 ft
ROST Unit: 2	Final depth BGS: 17.31 ft



ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 11:02:16 AM	Max fluorescence: 0.59% @ 4.01 ft
ROST Unit: 2	Final depth BGS: 4.30 ft

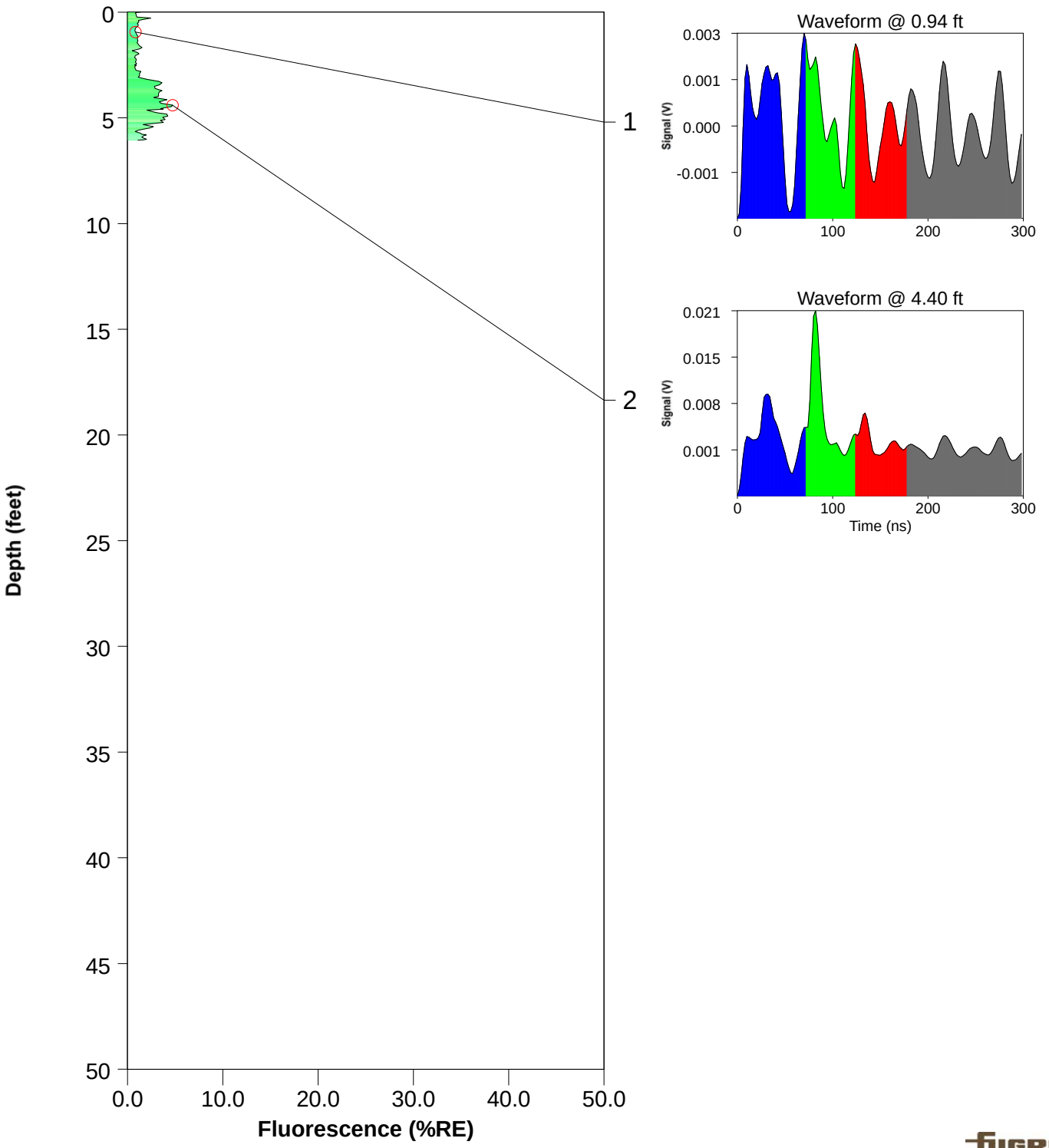
P-04-01



ROST Fluorescence Response Data

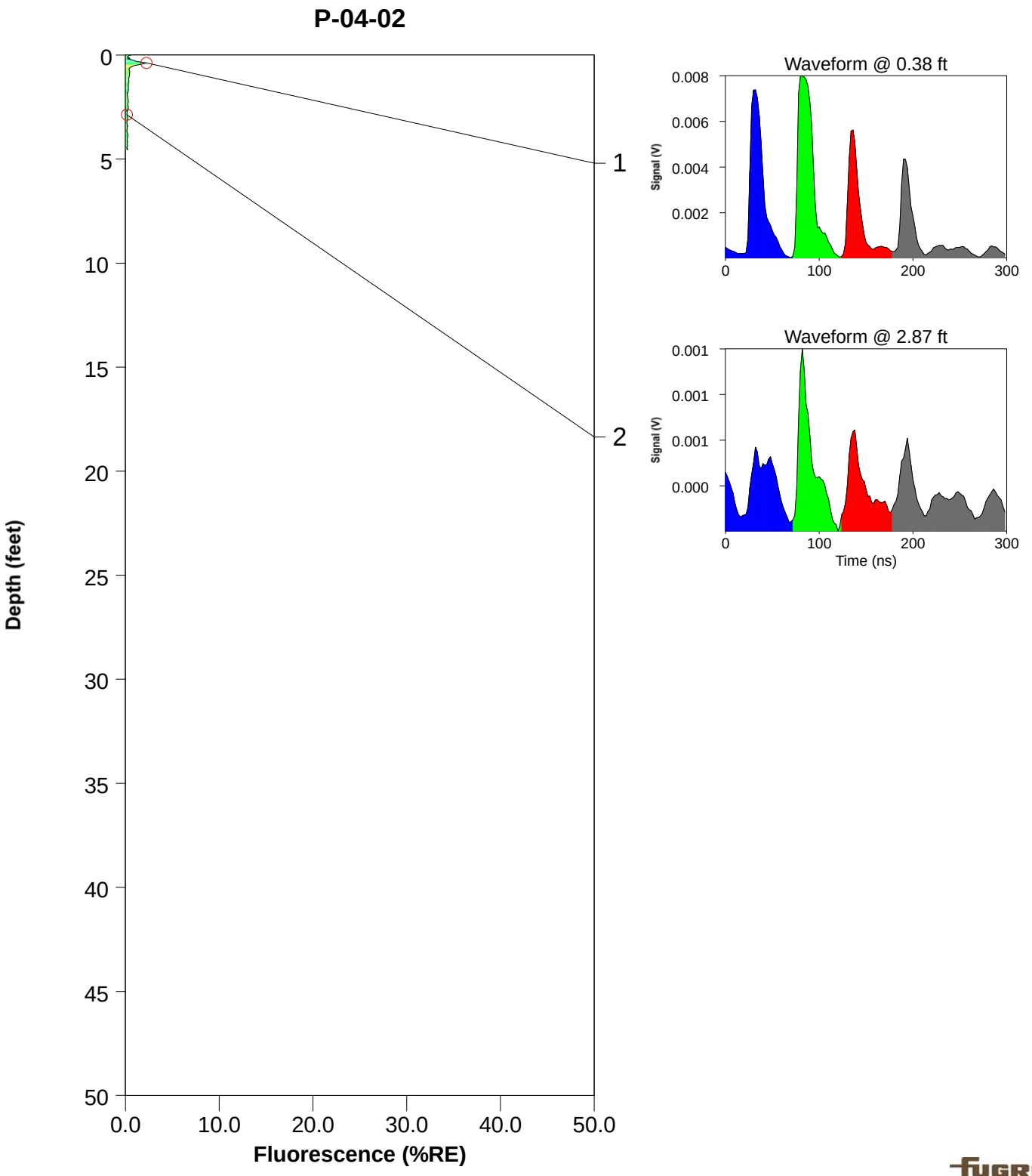
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 11:13:08 AM	Max fluorescence: 4.73% @ 4.40 ft
ROST Unit: 2	Final depth BGS: 6.05 ft

P-04-01A



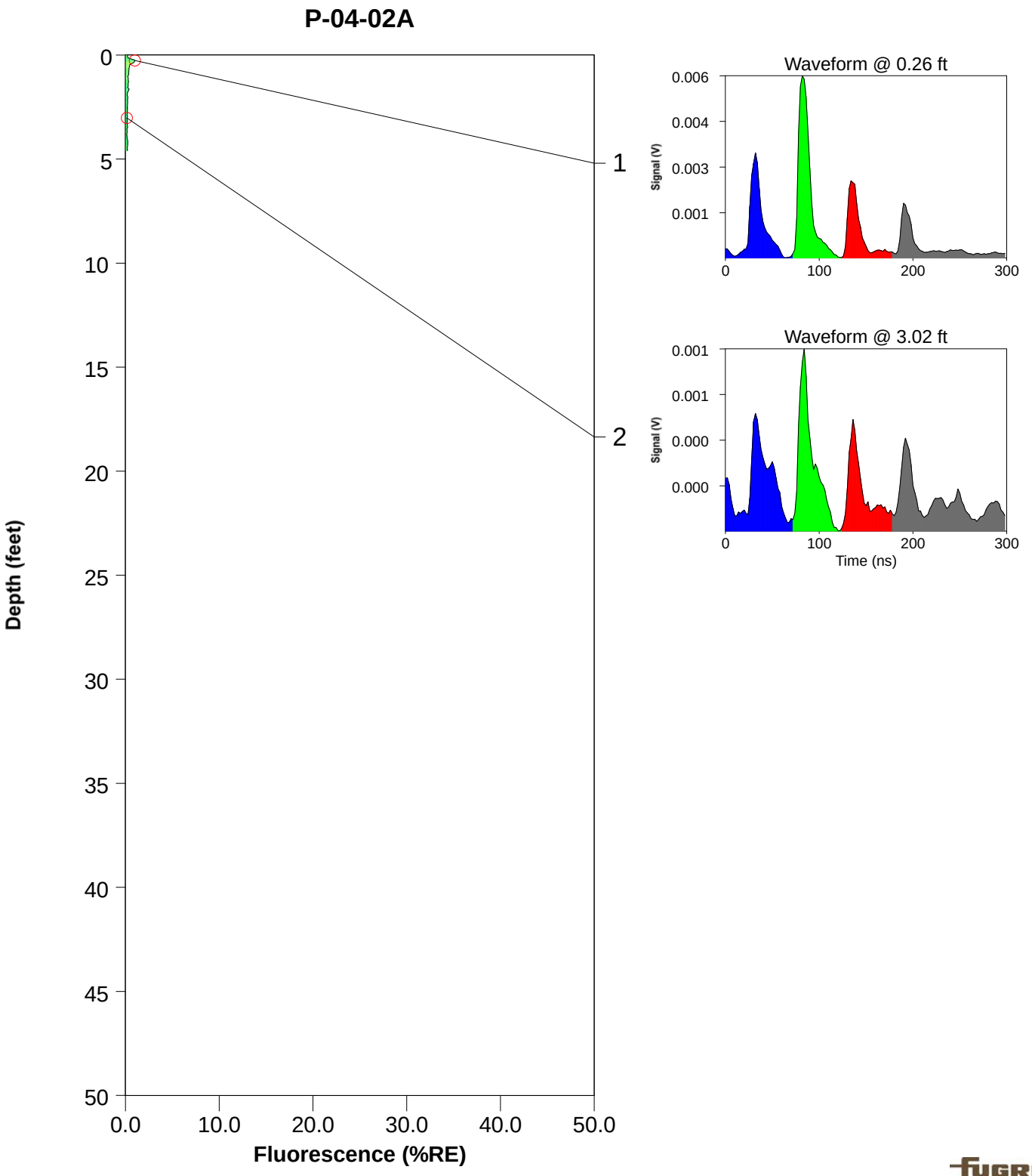
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:21:48 AM	Max fluorescence: 2.24% @ 0.38 ft
ROST Unit: 2	Final depth BGS: 4.54 ft



ROST Fluorescence Response Data

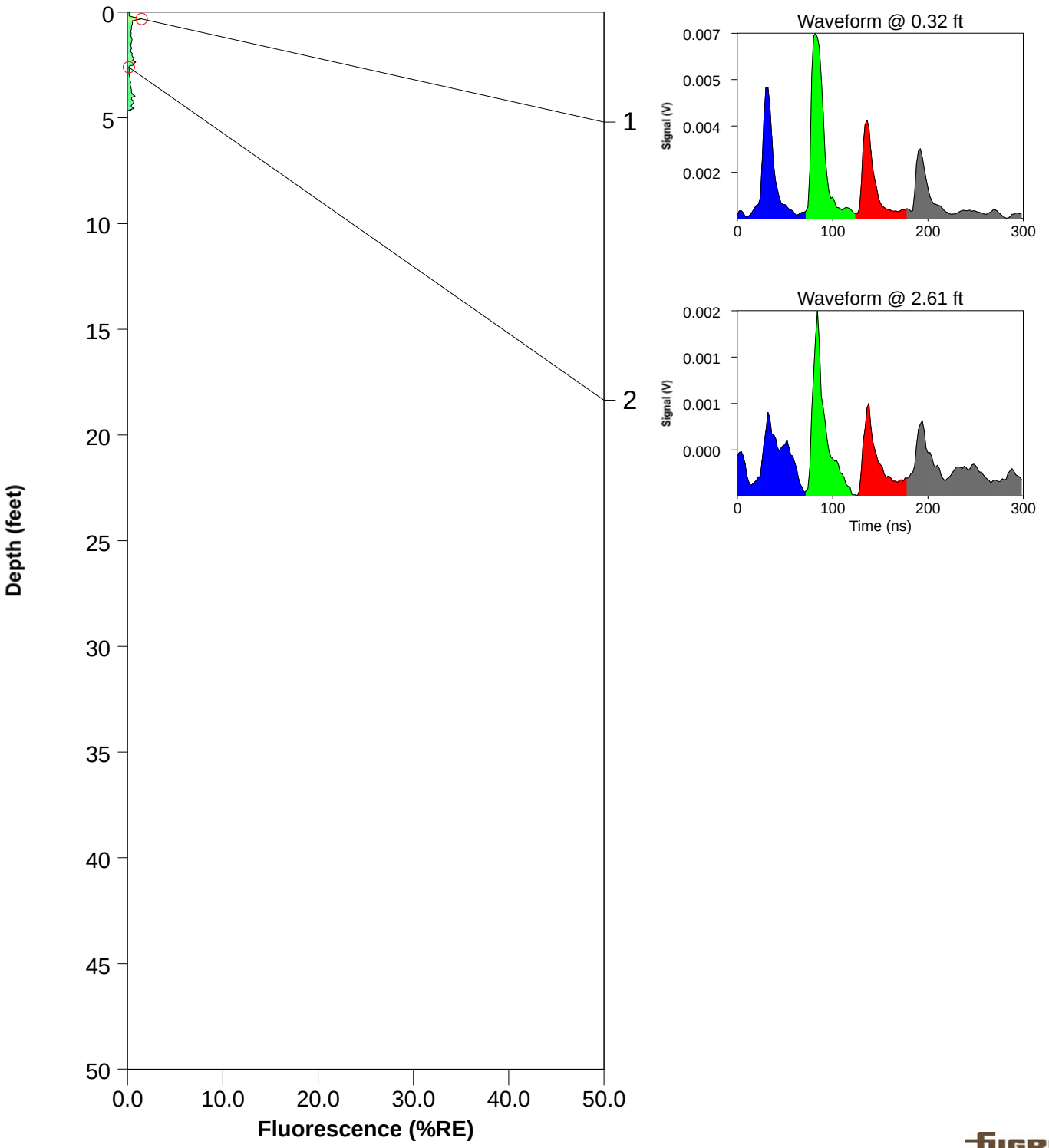
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:29:18 AM	Max fluorescence: 1.00% @ 0.26 ft
ROST Unit: 2	Final depth BGS: 4.60 ft



ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:43:51 AM	Max fluorescence: 1.48% @ 0.32 ft
ROST Unit: 2	Final depth BGS: 4.64 ft

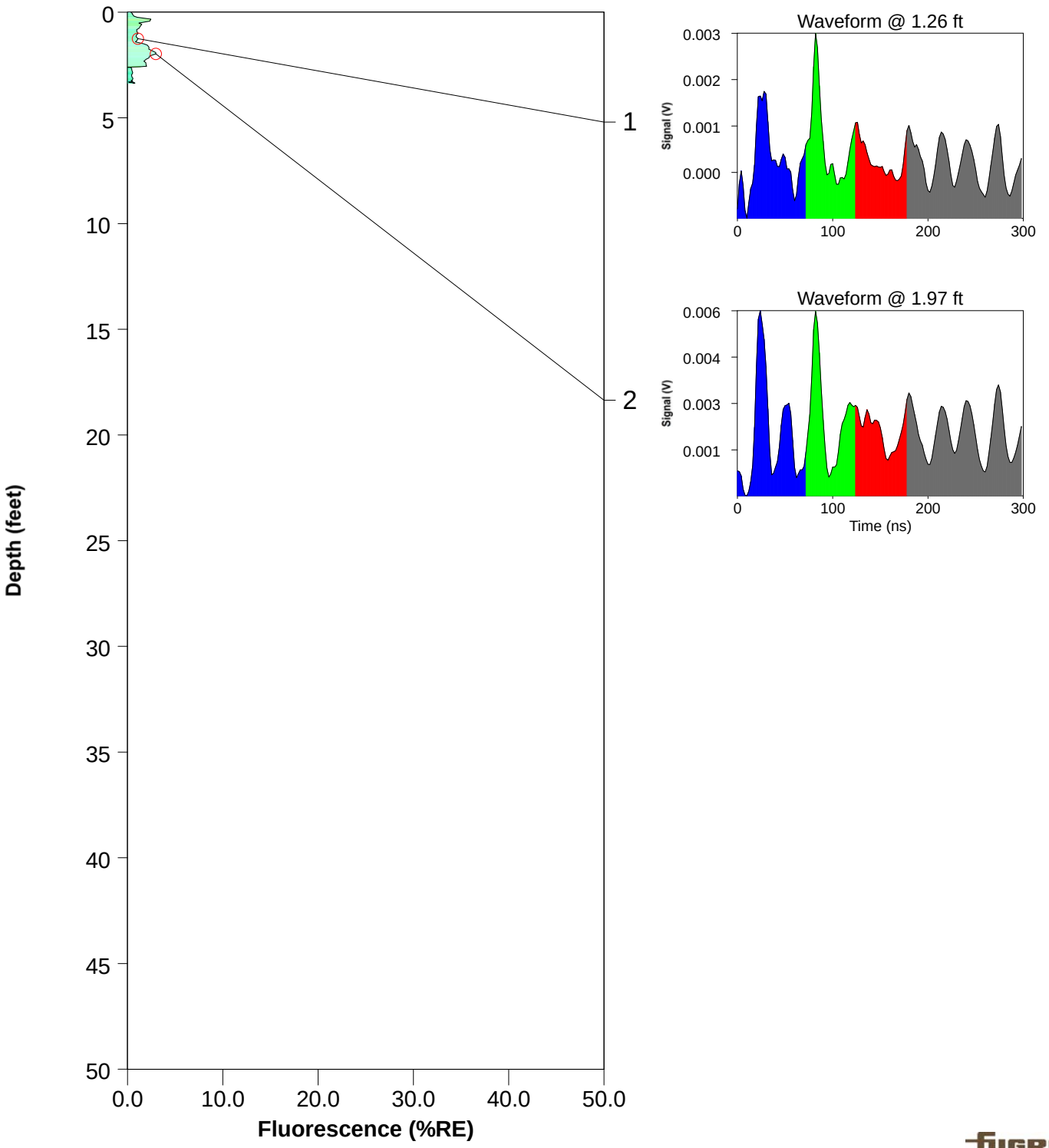
P-04-03



ROST Fluorescence Response Data

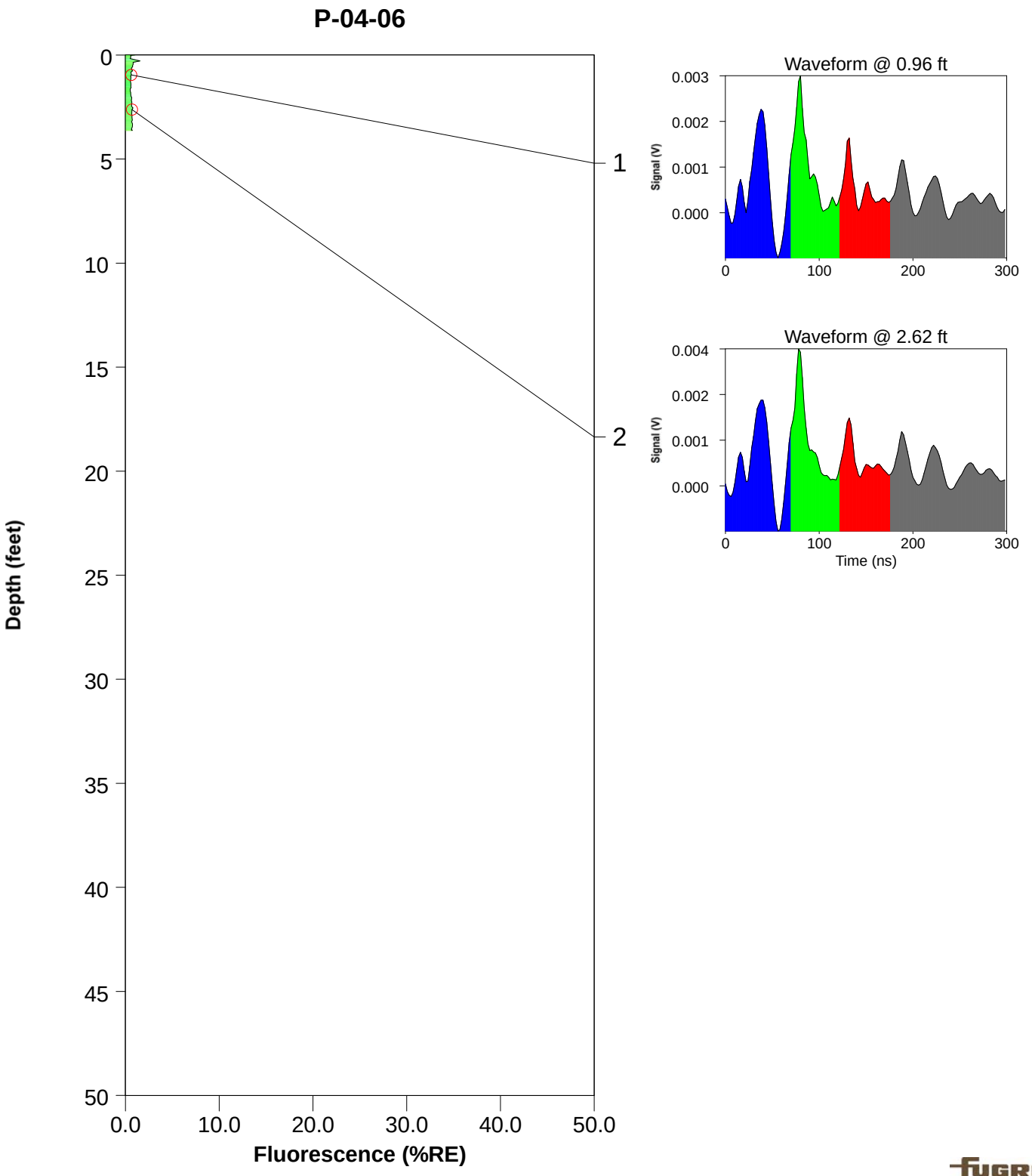
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 10:51:10 AM	Max fluorescence: 2.97% @ 1.97 ft
ROST Unit: 2	Final depth BGS: 3.36 ft

P-04-03A



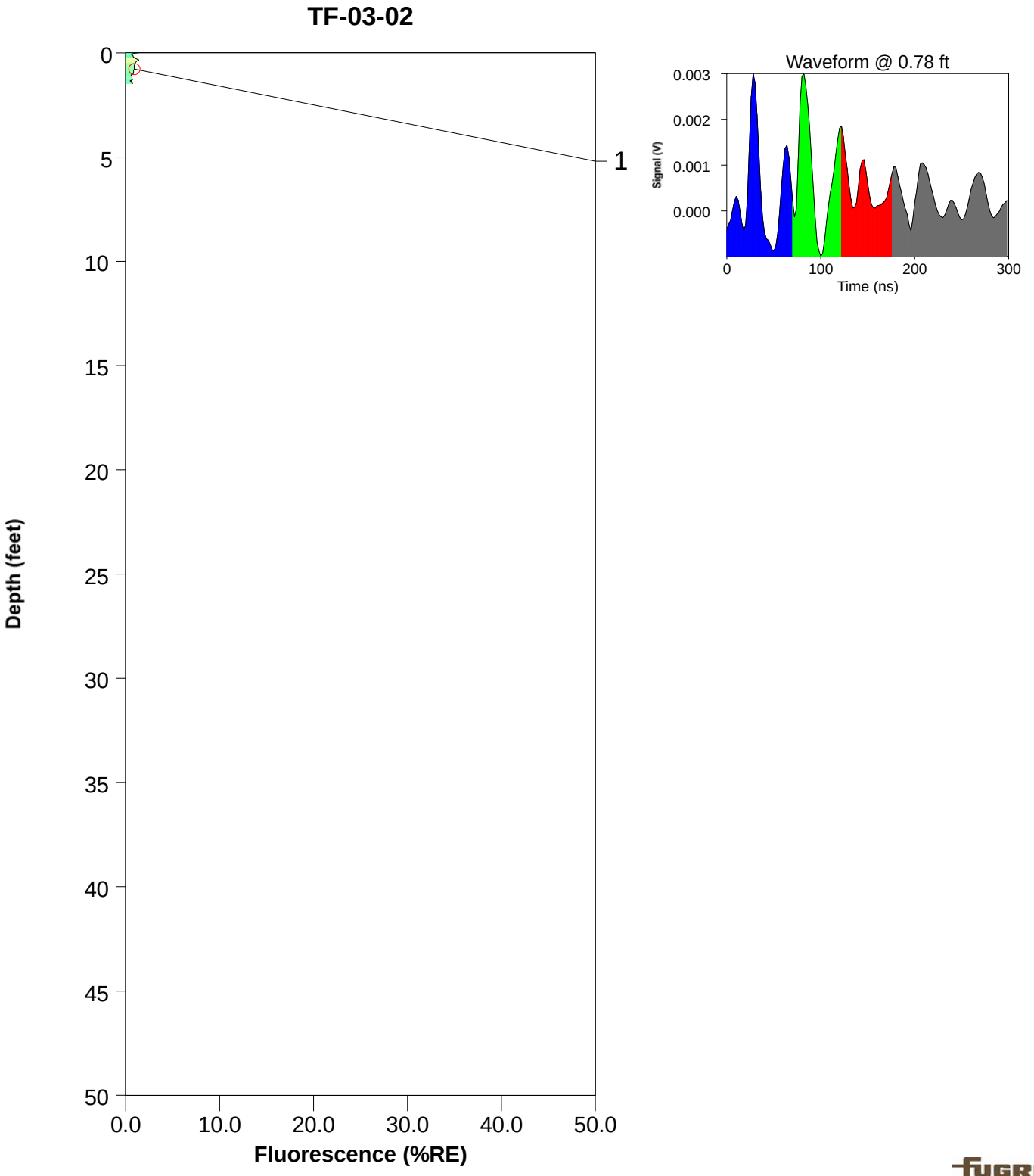
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 3:51:46 PM	Max fluorescence: 1.54% @ 0.29 ft
ROST Unit: 2	Final depth BGS: 3.63 ft



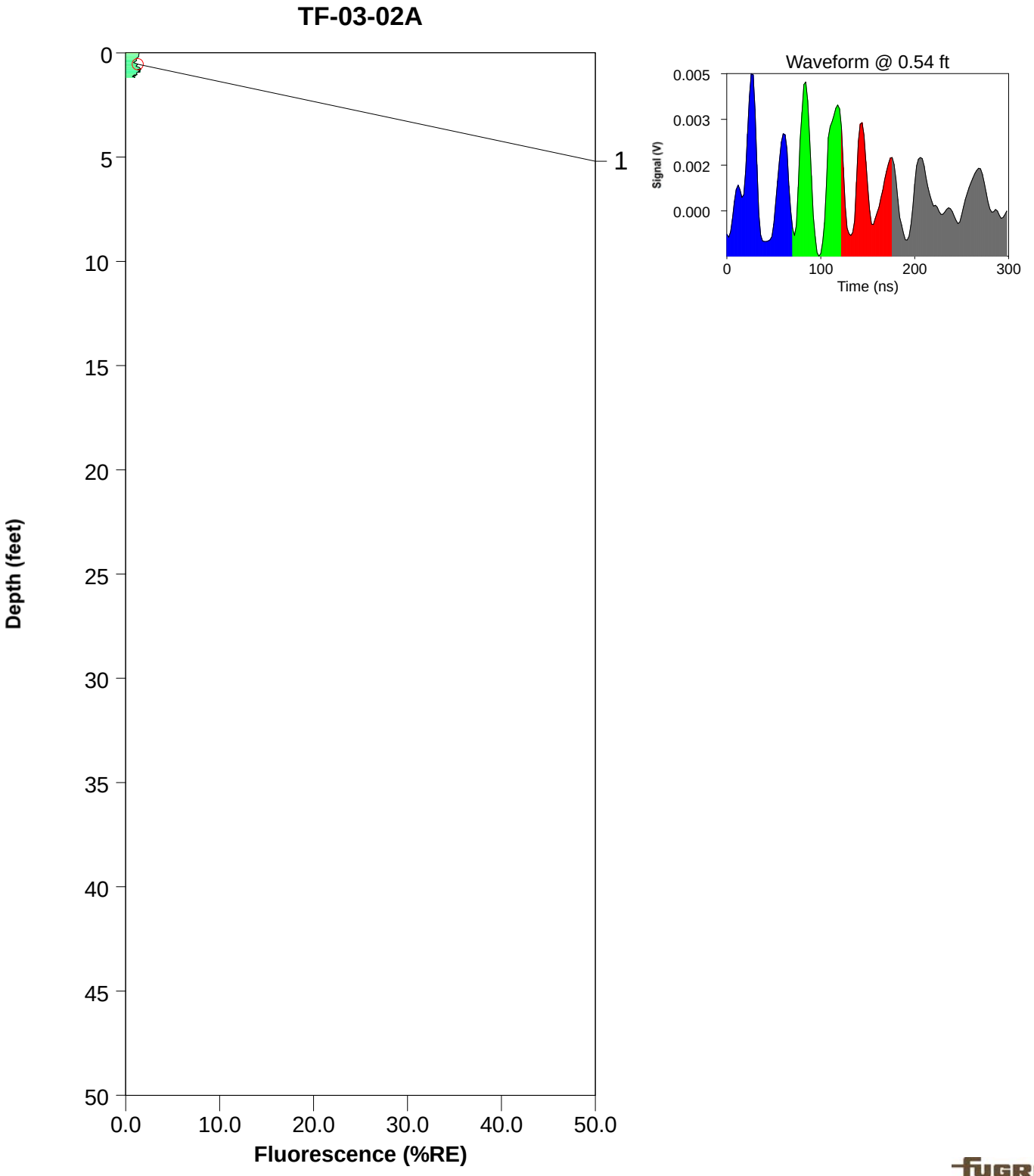
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:45:51 AM	Max fluorescence: 1.41% @ 0.00 ft
ROST Unit: 2	Final depth BGS: 1.47 ft



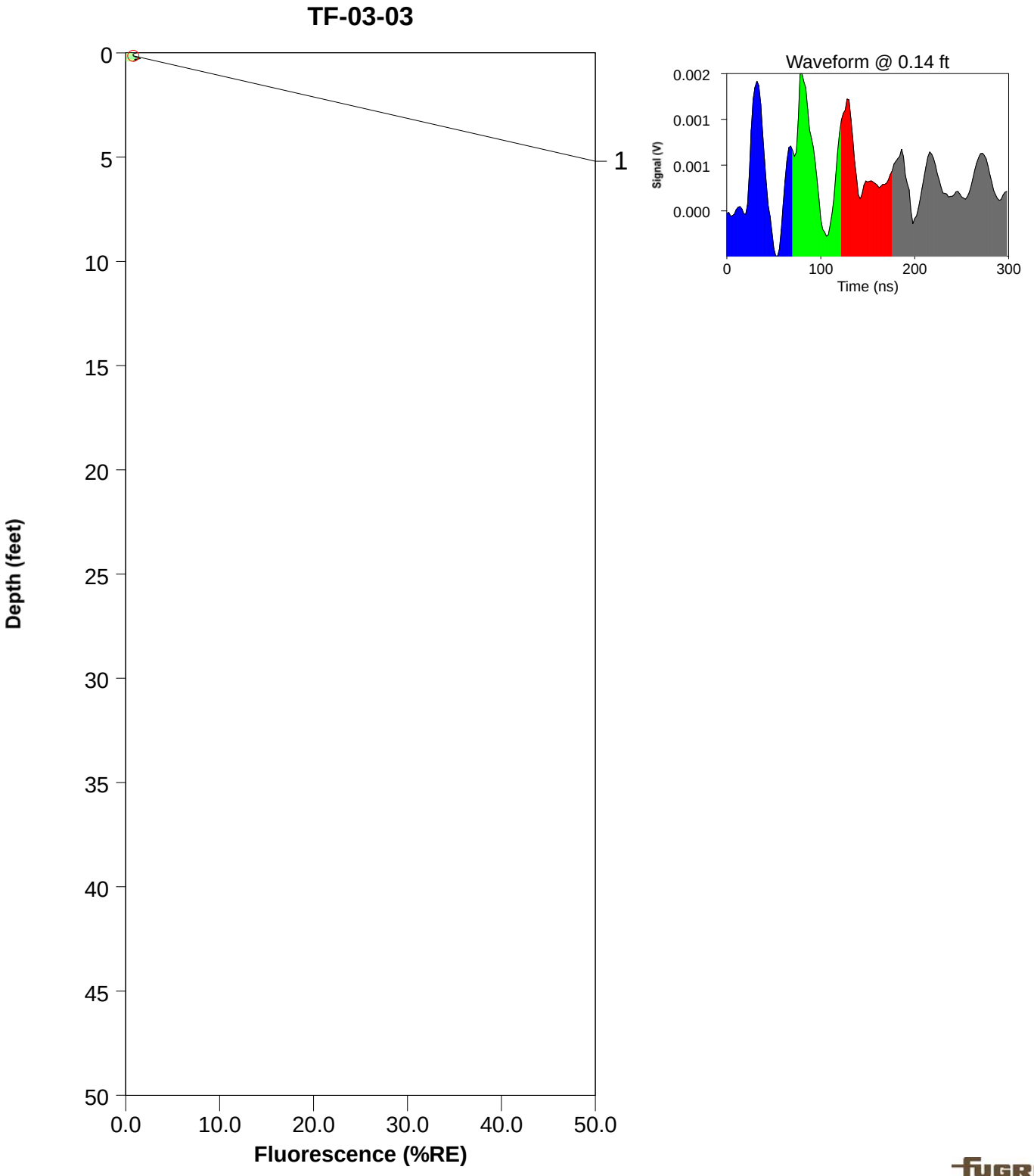
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:54:16 AM	Max fluorescence: 1.65% @ 0.78 ft
ROST Unit: 2	Final depth BGS: 1.18 ft



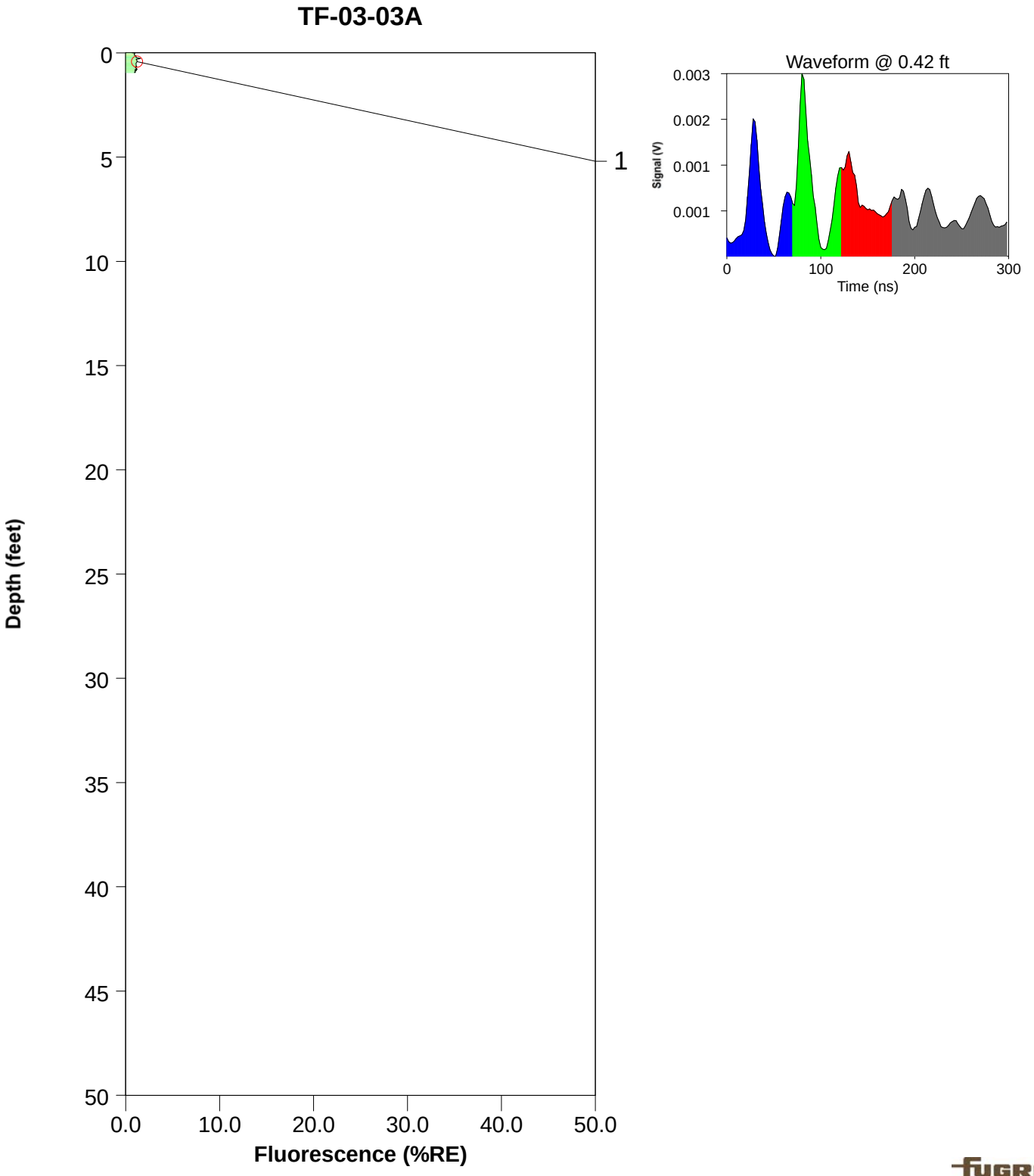
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:31:56 AM	Max fluorescence: 1.56% @ 0.27 ft
ROST Unit: 2	Final depth BGS: 0.39 ft



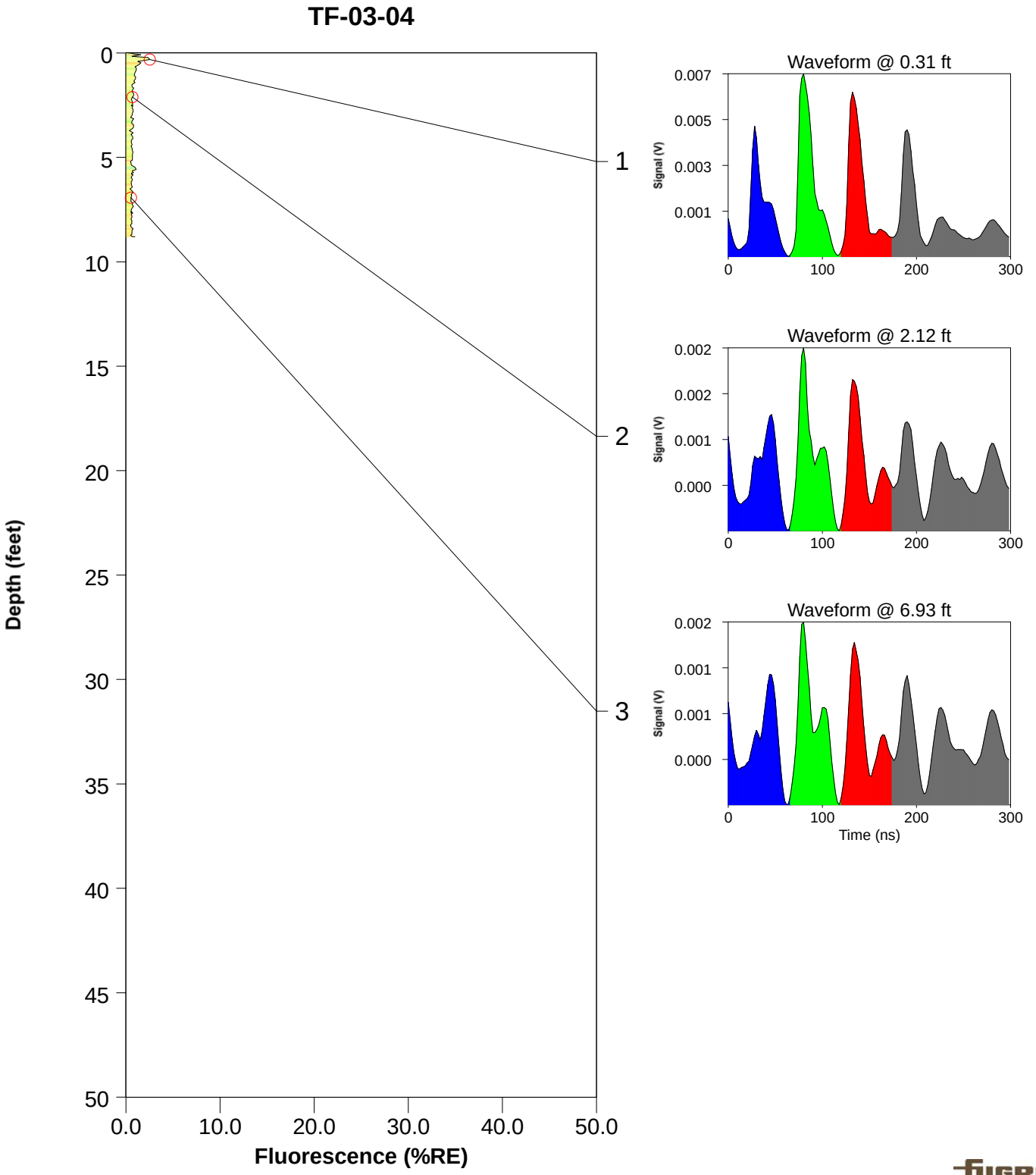
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:38:04 AM	Max fluorescence: 1.58% @ 0.27 ft
ROST Unit: 2	Final depth BGS: 0.94 ft



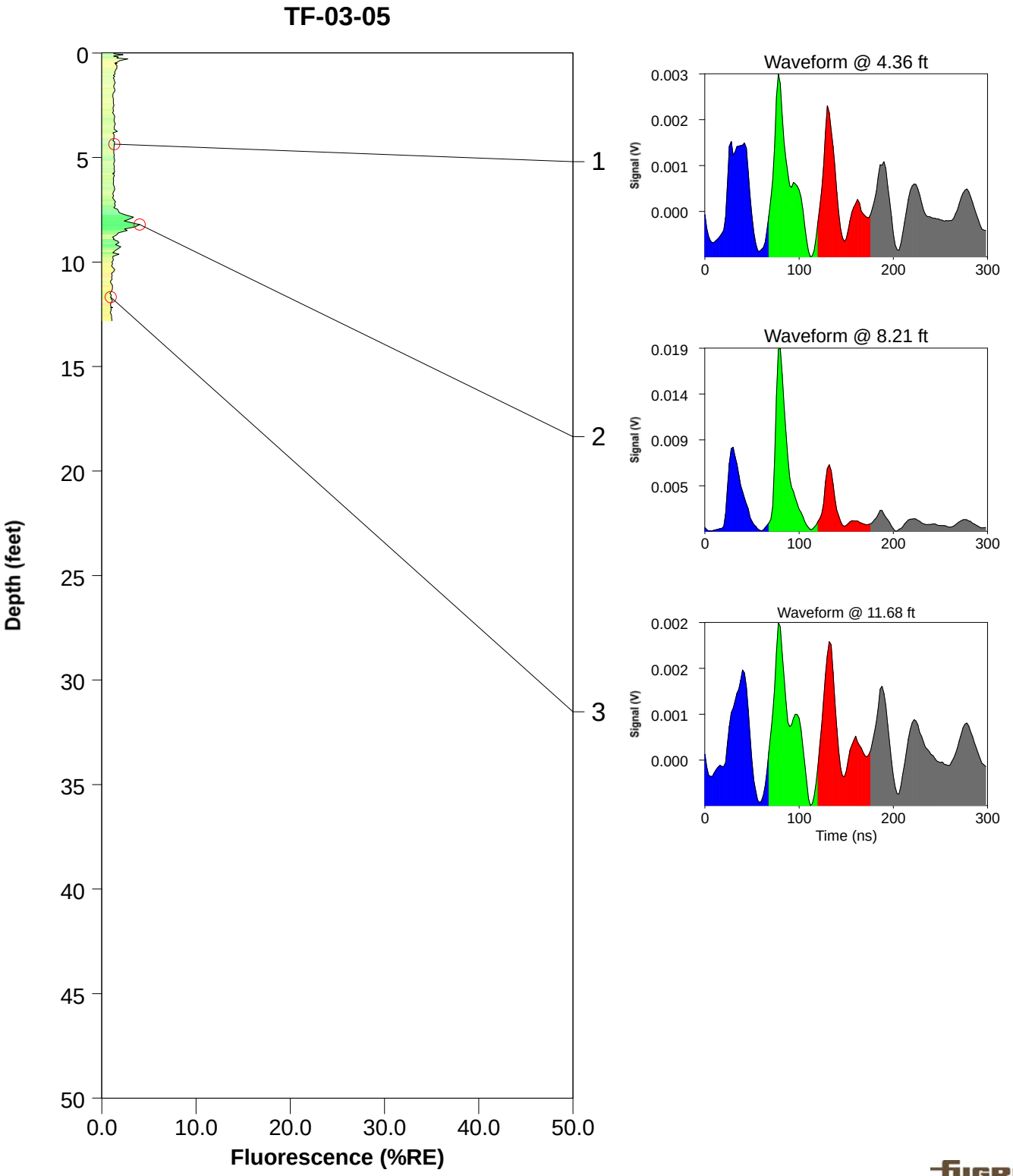
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 9:37:31 AM	Max fluorescence: 2.53% @ 0.31 ft
ROST Unit: 2	Final depth BGS: 8.80 ft



ROST Fluorescence Response Data

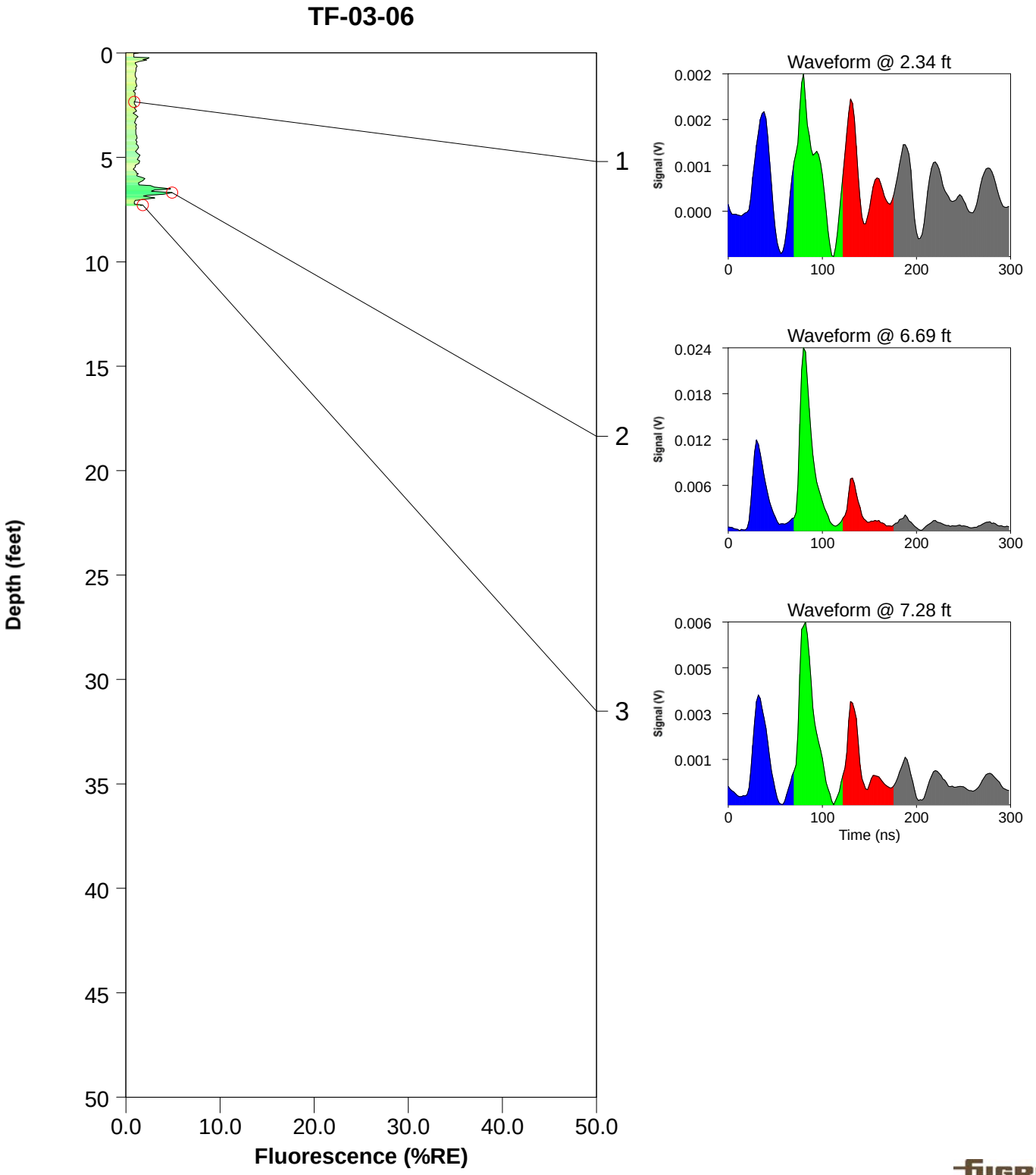
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 9:51:16 AM	Max fluorescence: 4.01% @ 8.21 ft
ROST Unit: 2	Final depth BGS: 12.81 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

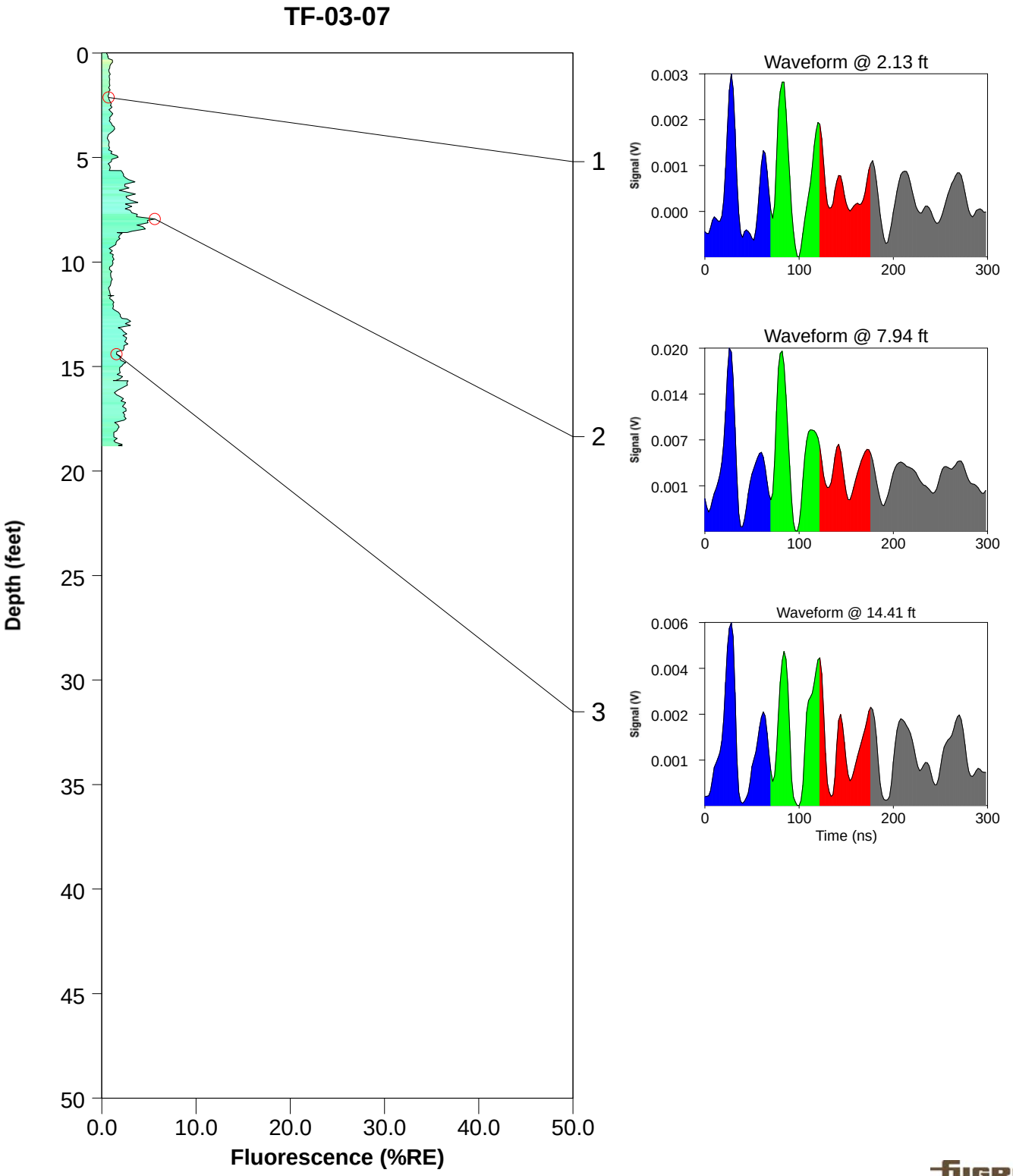
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:05:27 AM	Max fluorescence: 4.90% @ 6.69 ft
ROST Unit: 2	Final depth BGS: 7.30 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

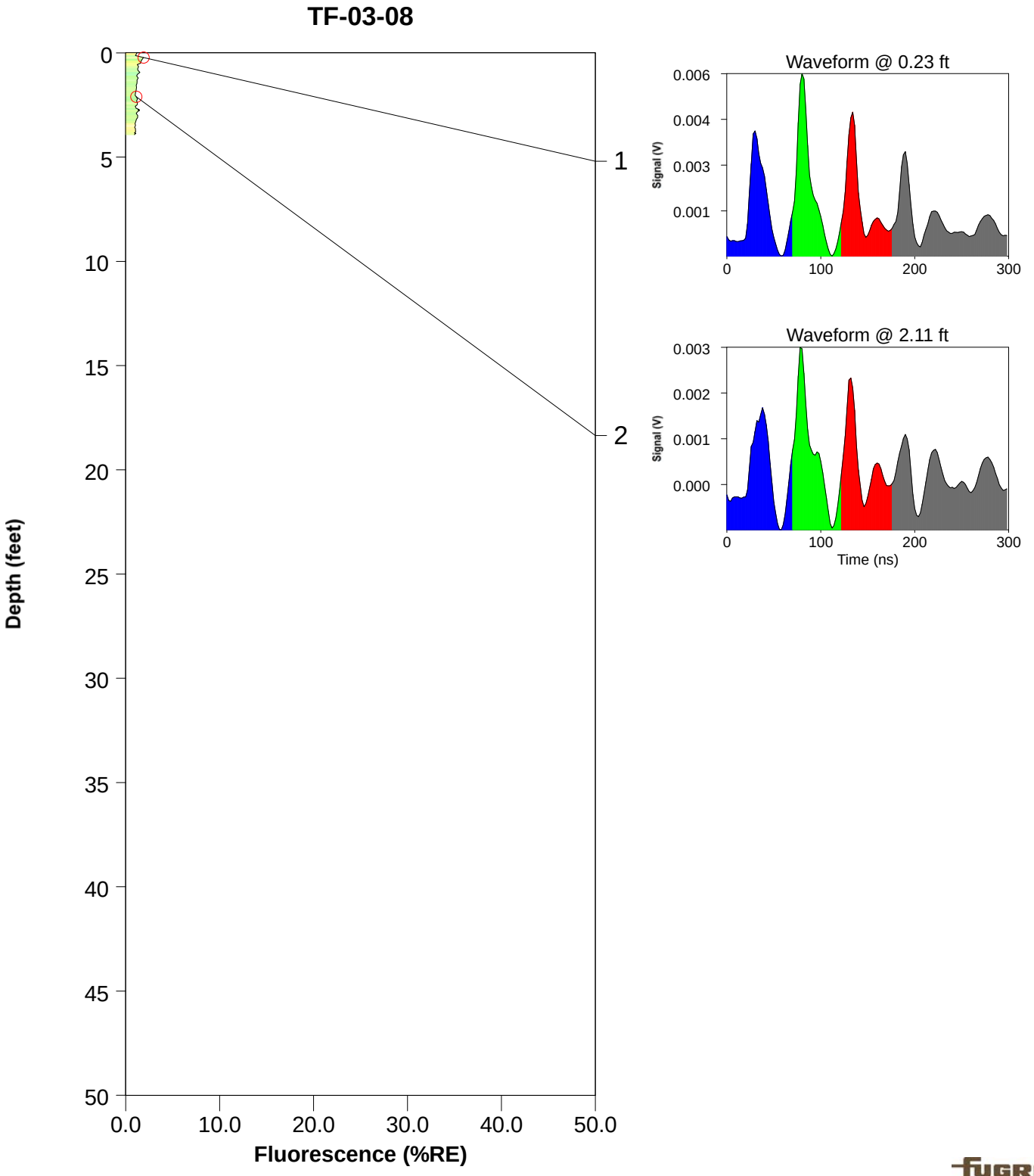
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 11:06:35 AM	Max fluorescence: 5.62% @ 7.94 ft
ROST Unit: 2	Final depth BGS: 18.80 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

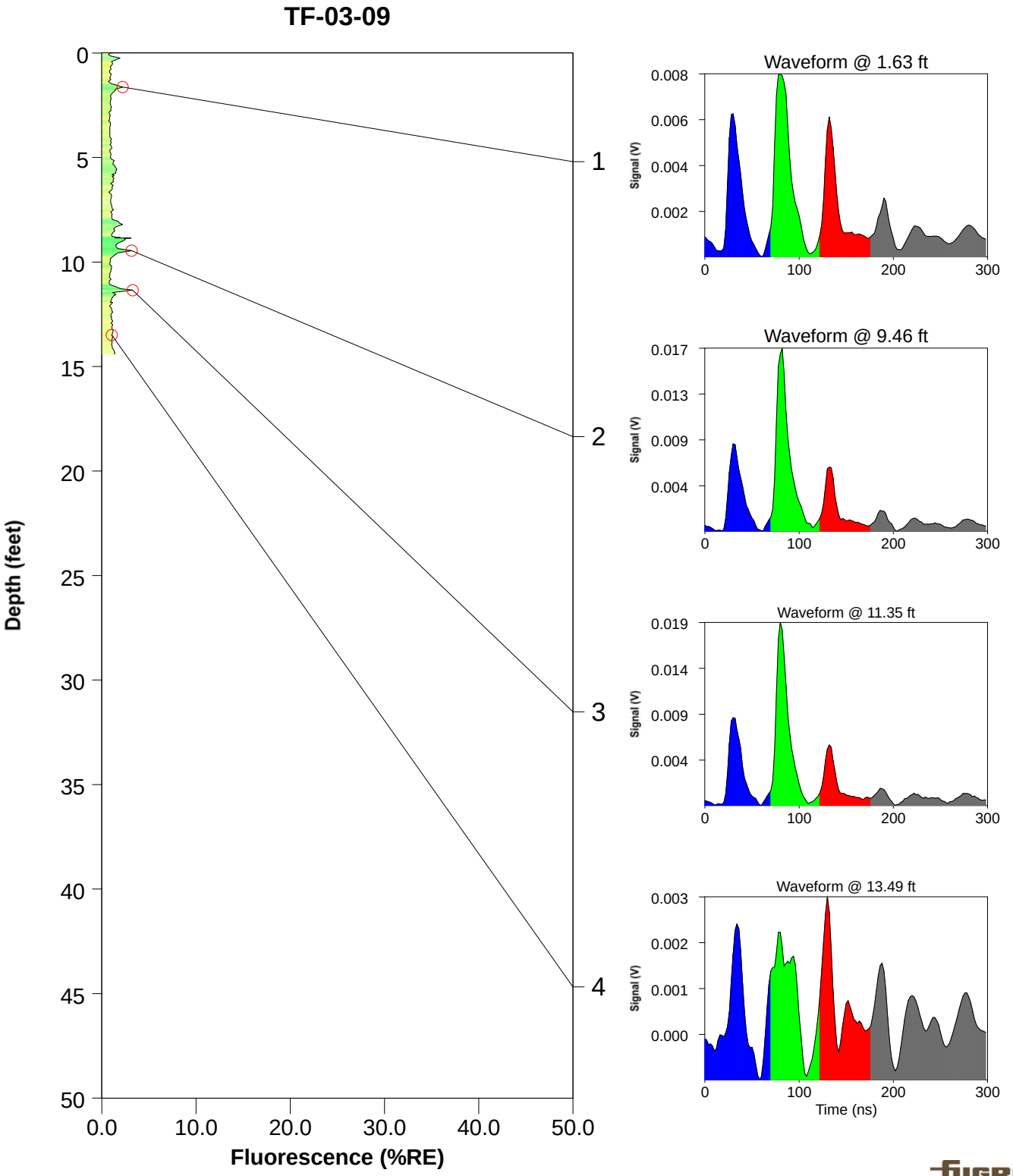
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 10:17:15 AM	Max fluorescence: 1.90% @ 0.23 ft
ROST Unit: 2	Final depth BGS: 3.93 ft



ROST Fluorescence Response Data

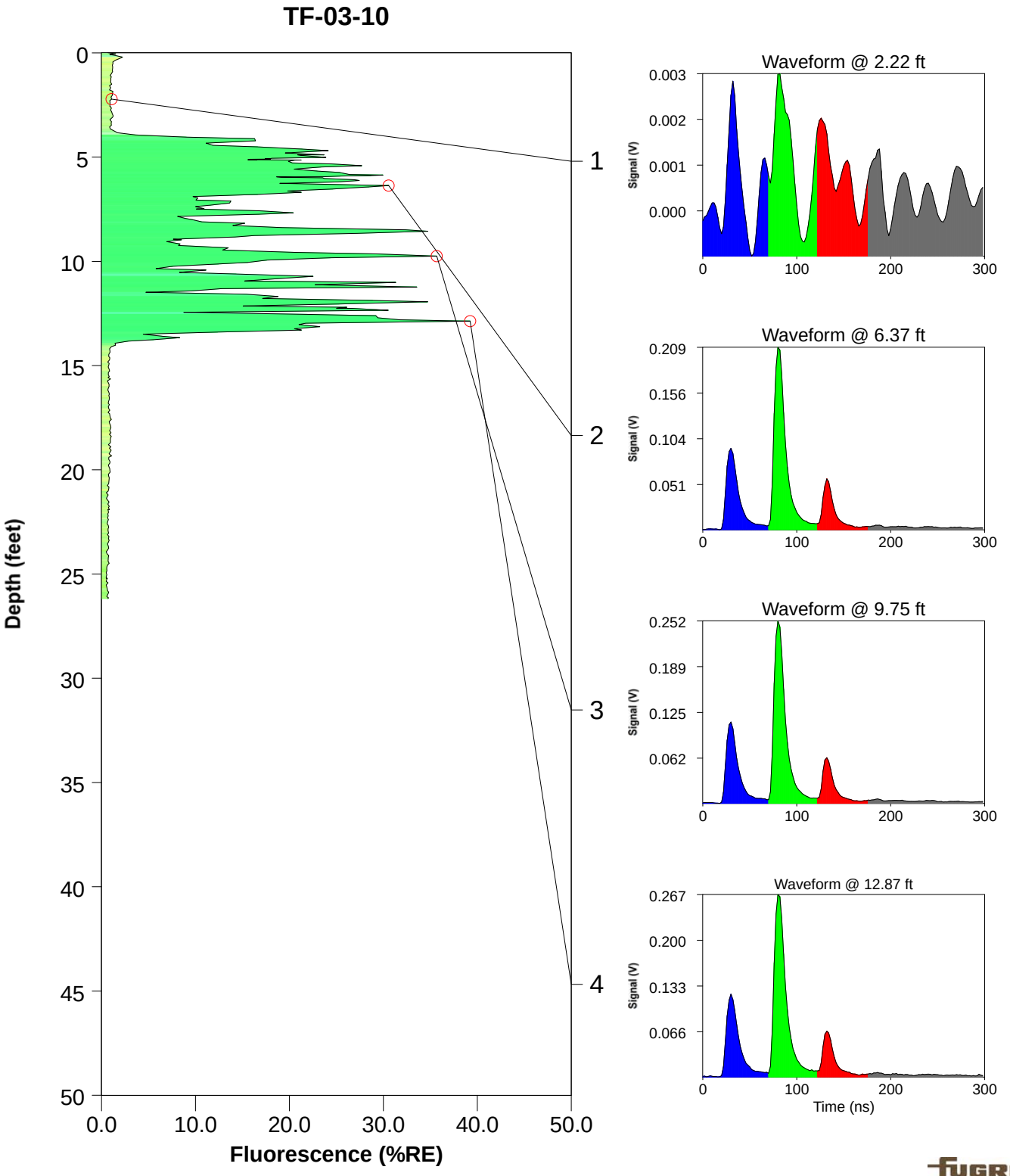
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 11:29:45 AM	Max fluorescence: 3.27% @ 11.35 ft
ROST Unit: 2	Final depth BGS: 14.41 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

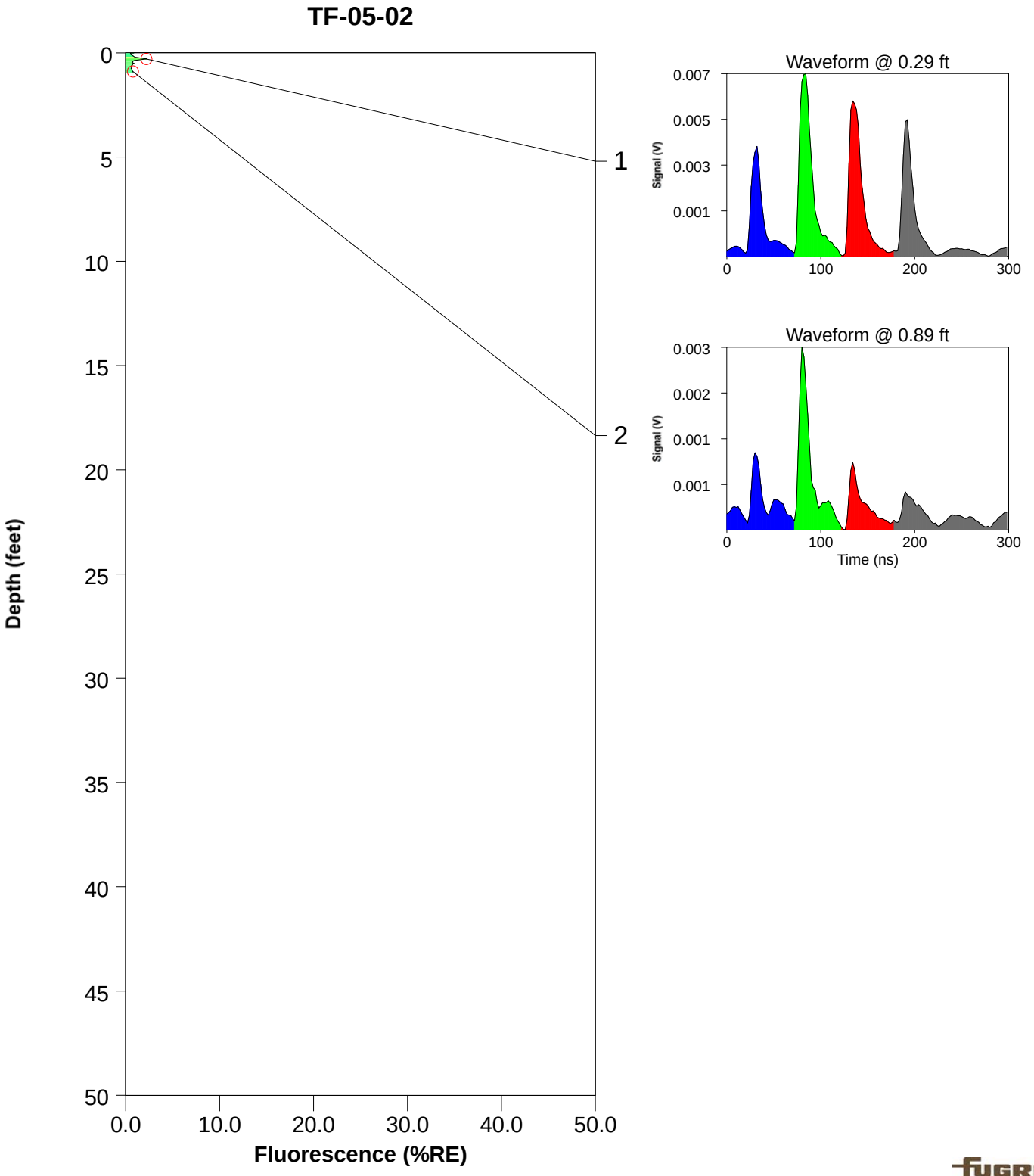
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 11:49:51 AM	Max fluorescence: 39.24% @ 12.87 ft
ROST Unit: 2	Final depth BGS: 26.18 ft



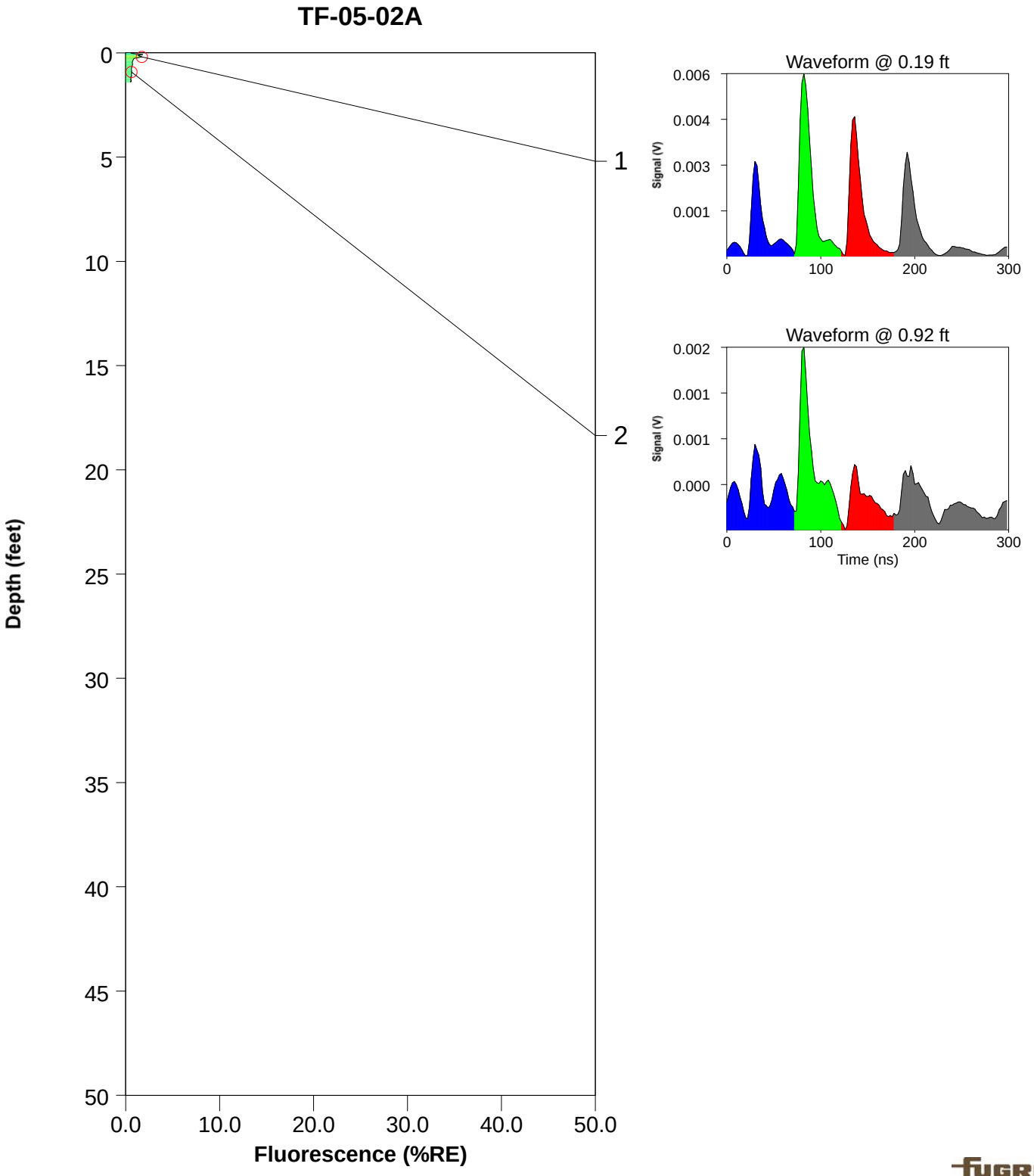
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 3:03:12 PM	Max fluorescence: 2.21% @ 0.29 ft
ROST Unit: 2	Final depth BGS: 0.94 ft



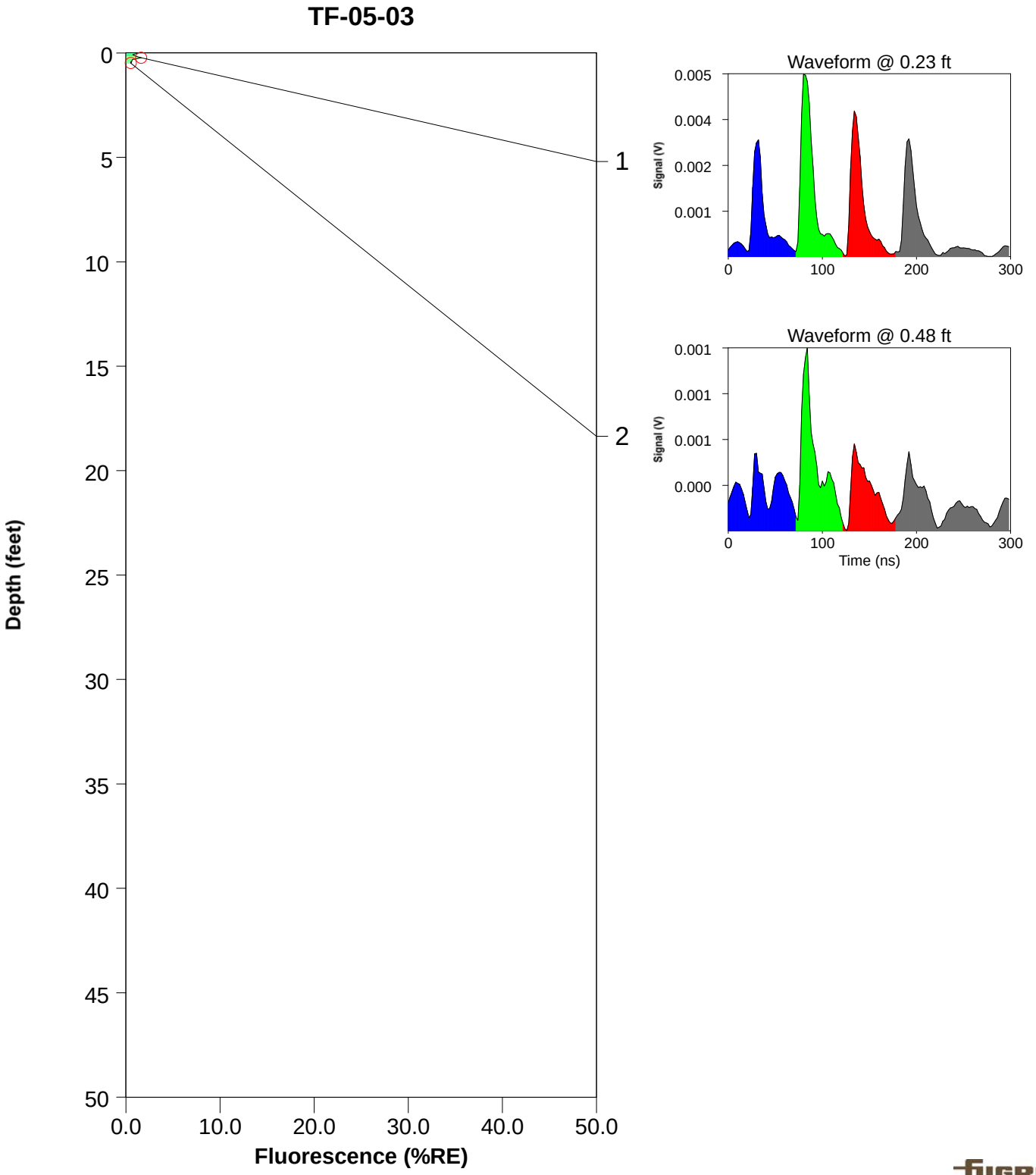
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 3:16:07 PM	Max fluorescence: 1.80% @ 0.09 ft
ROST Unit: 2	Final depth BGS: 1.40 ft



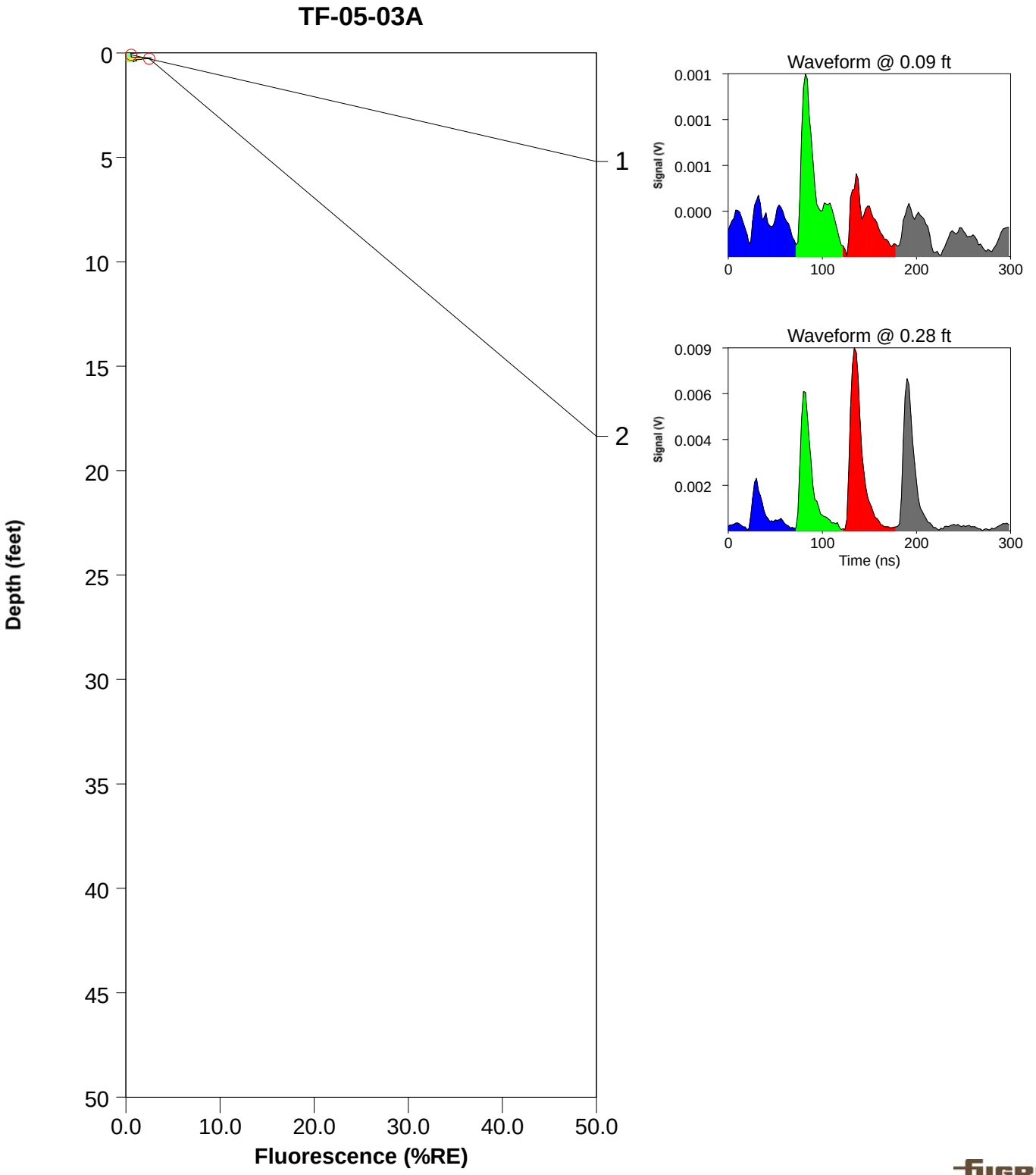
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 2:51:27 PM	Max fluorescence: 1.62% @ 0.23 ft
ROST Unit: 2	Final depth BGS: 0.49 ft



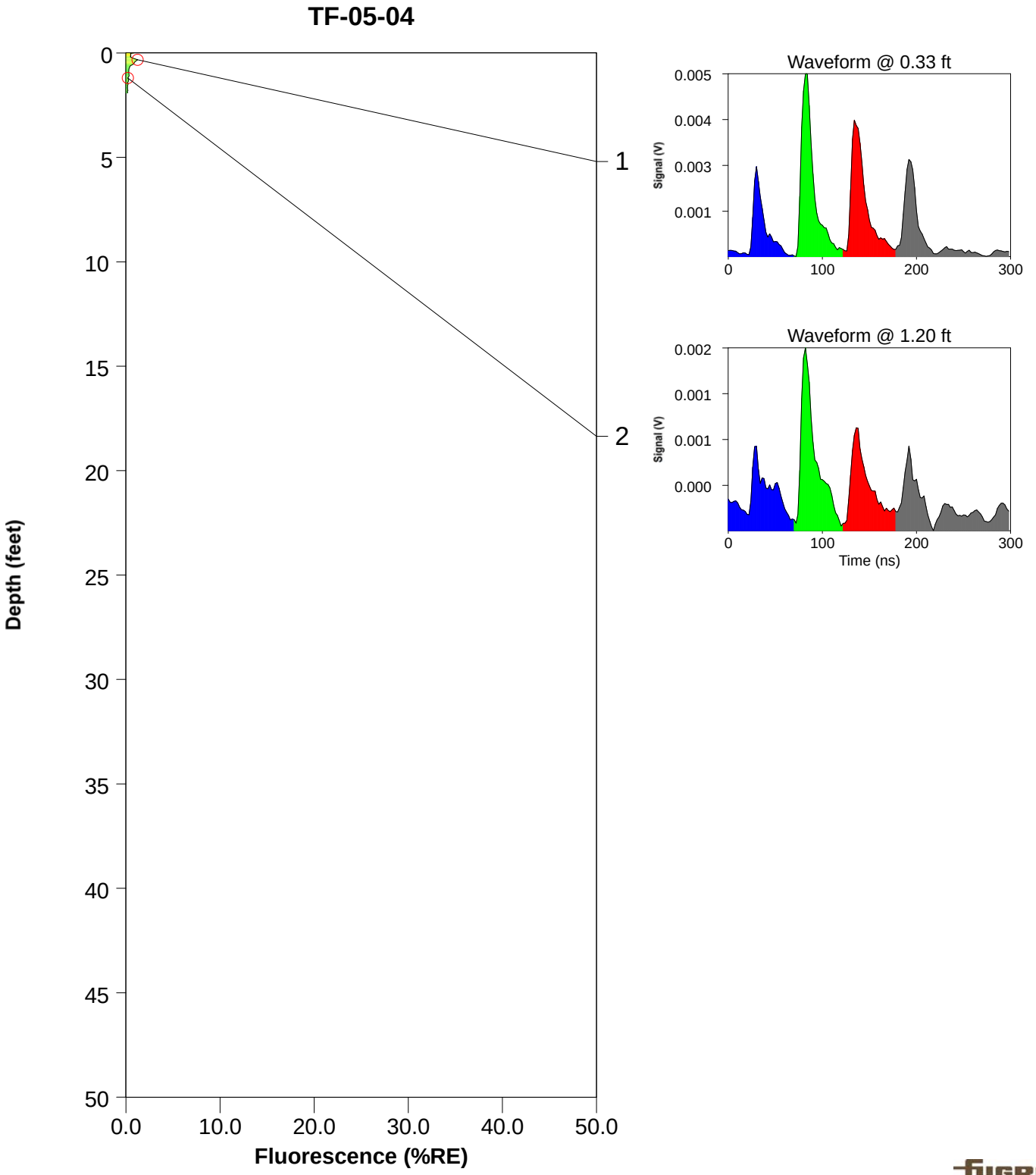
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 2:56:51 PM	Max fluorescence: 2.73% @ 0.24 ft
ROST Unit: 2	Final depth BGS: 0.41 ft



ROST Fluorescence Response Data

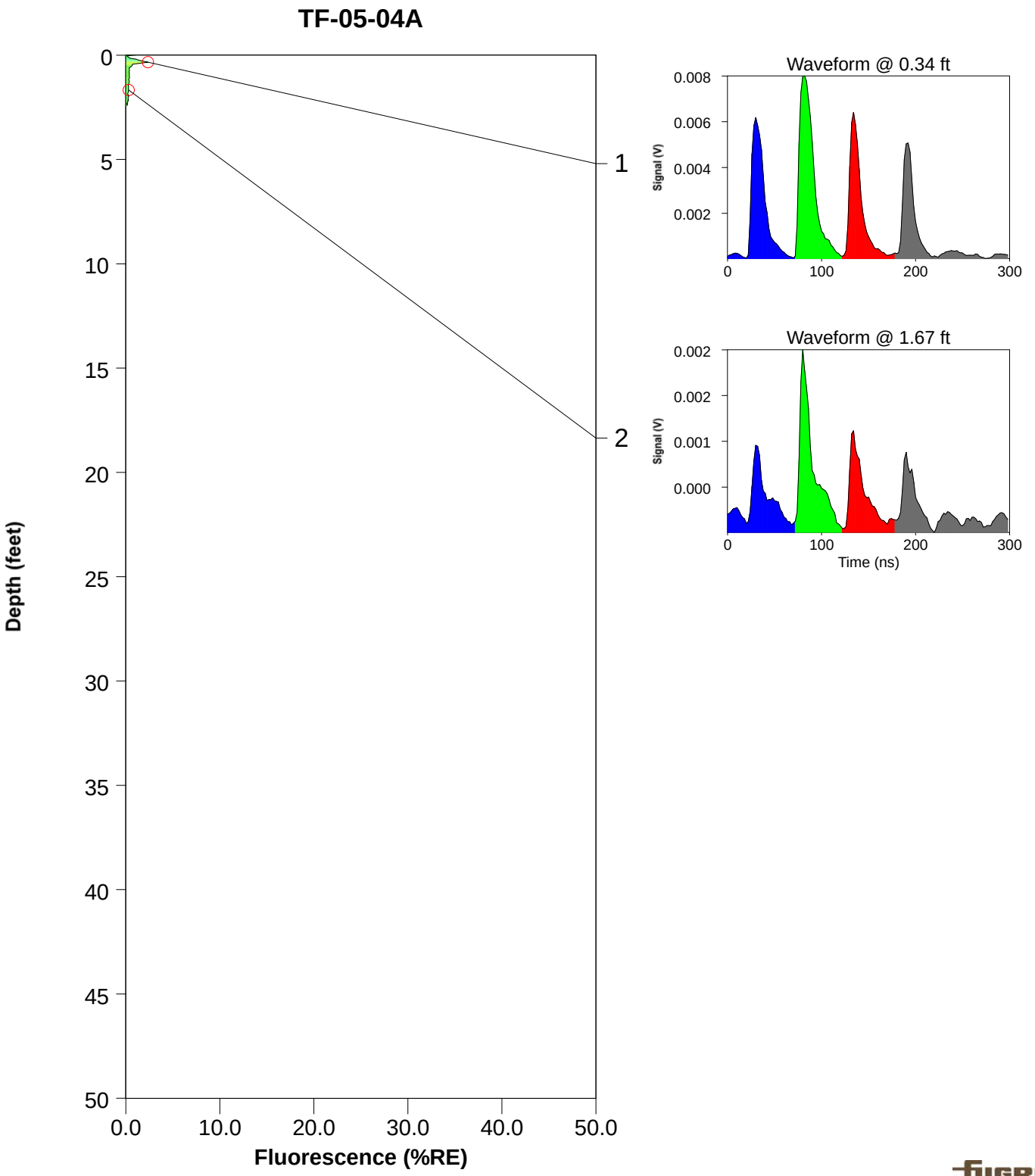
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 2:38:16 PM	Max fluorescence: 1.24% @ 0.33 ft
ROST Unit: 2	Final depth BGS: 1.92 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

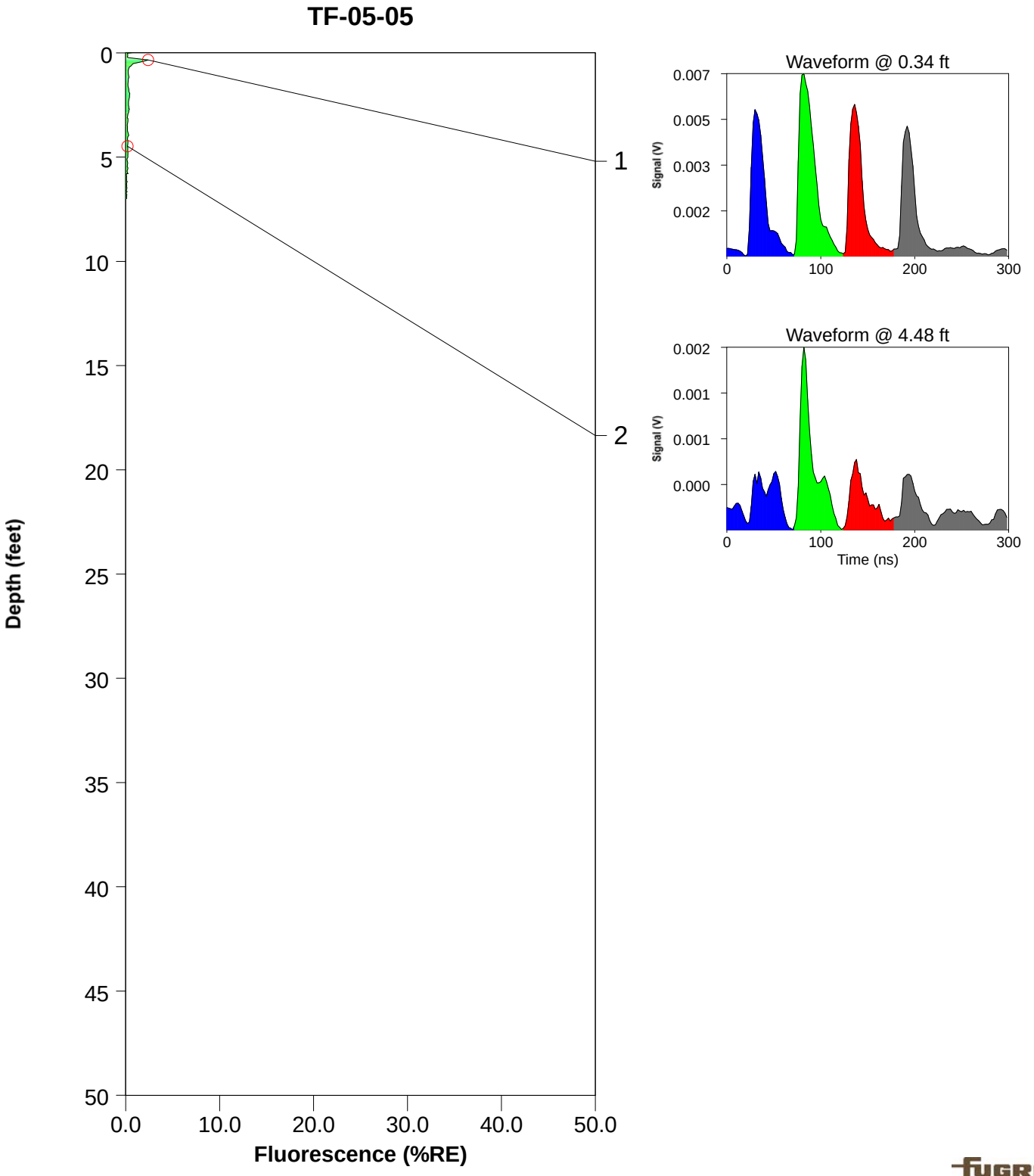
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 2:44:05 PM	Max fluorescence: 2.35% @ 0.34 ft
ROST Unit: 2	Final depth BGS: 2.40 ft



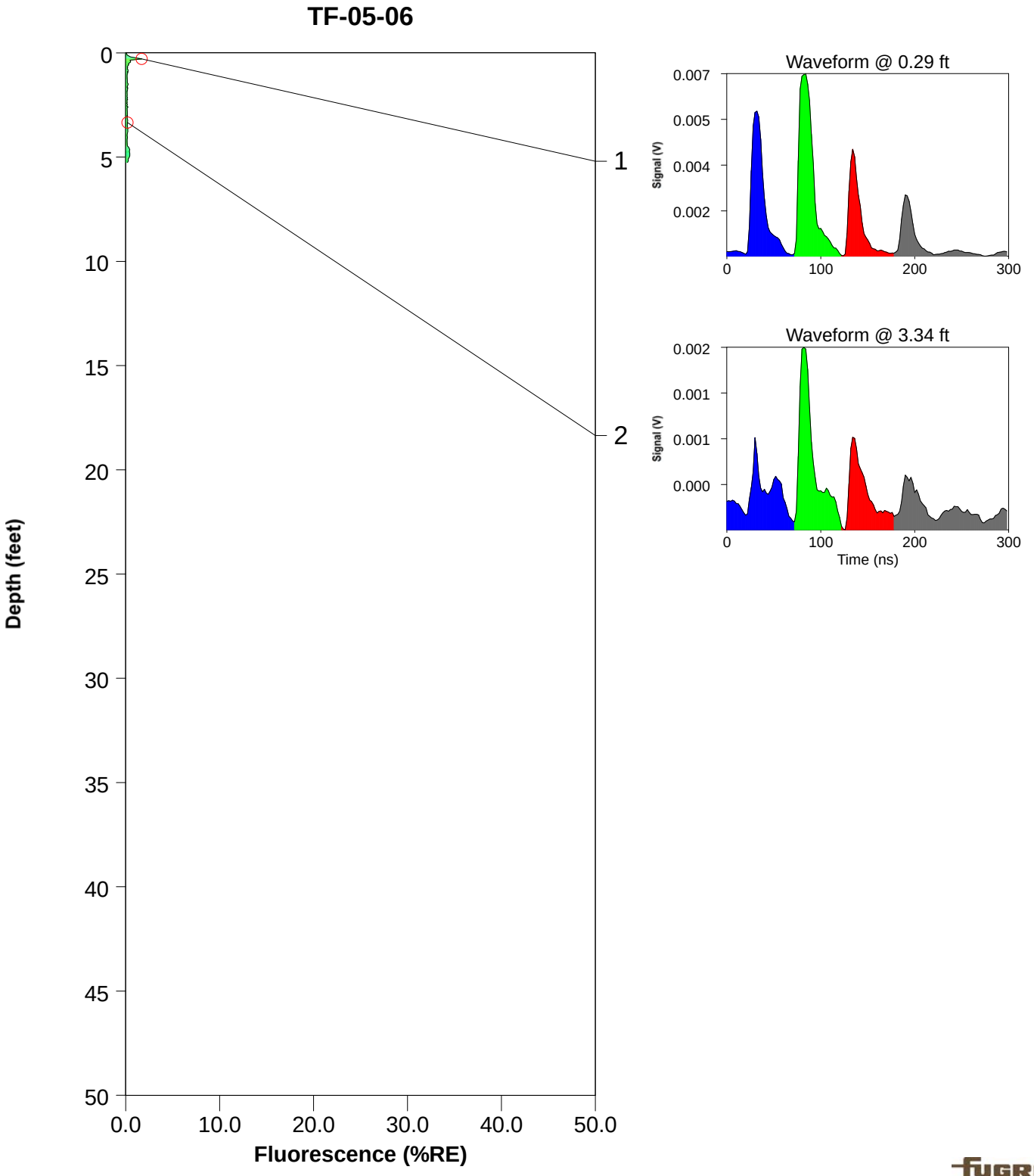
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 1:54:03 PM	Max fluorescence: 2.38% @ 0.34 ft
ROST Unit: 2	Final depth BGS: 7.00 ft



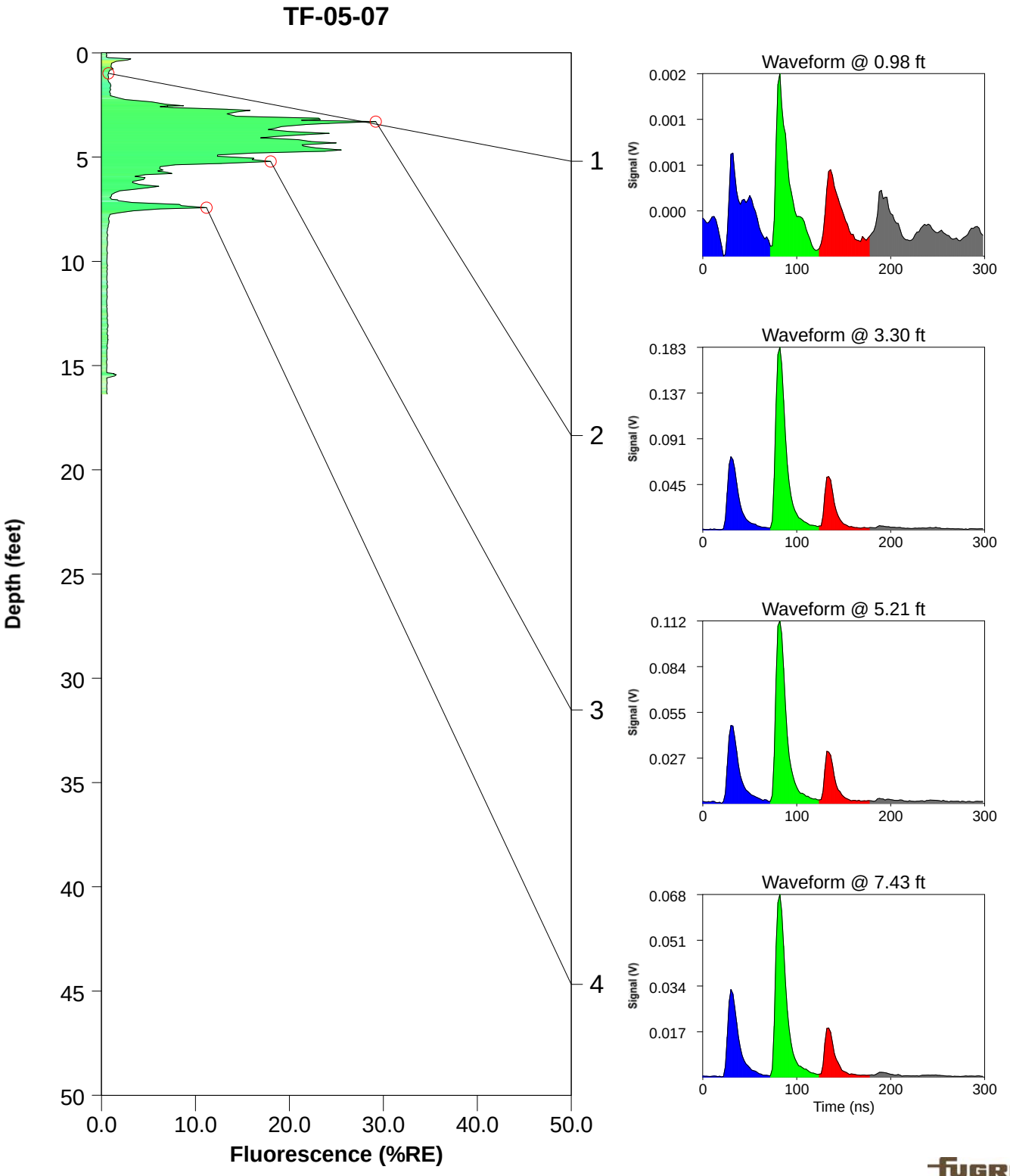
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 2:11:50 PM	Max fluorescence: 1.70% @ 0.29 ft
ROST Unit: 2	Final depth BGS: 5.26 ft



ROST Fluorescence Response Data

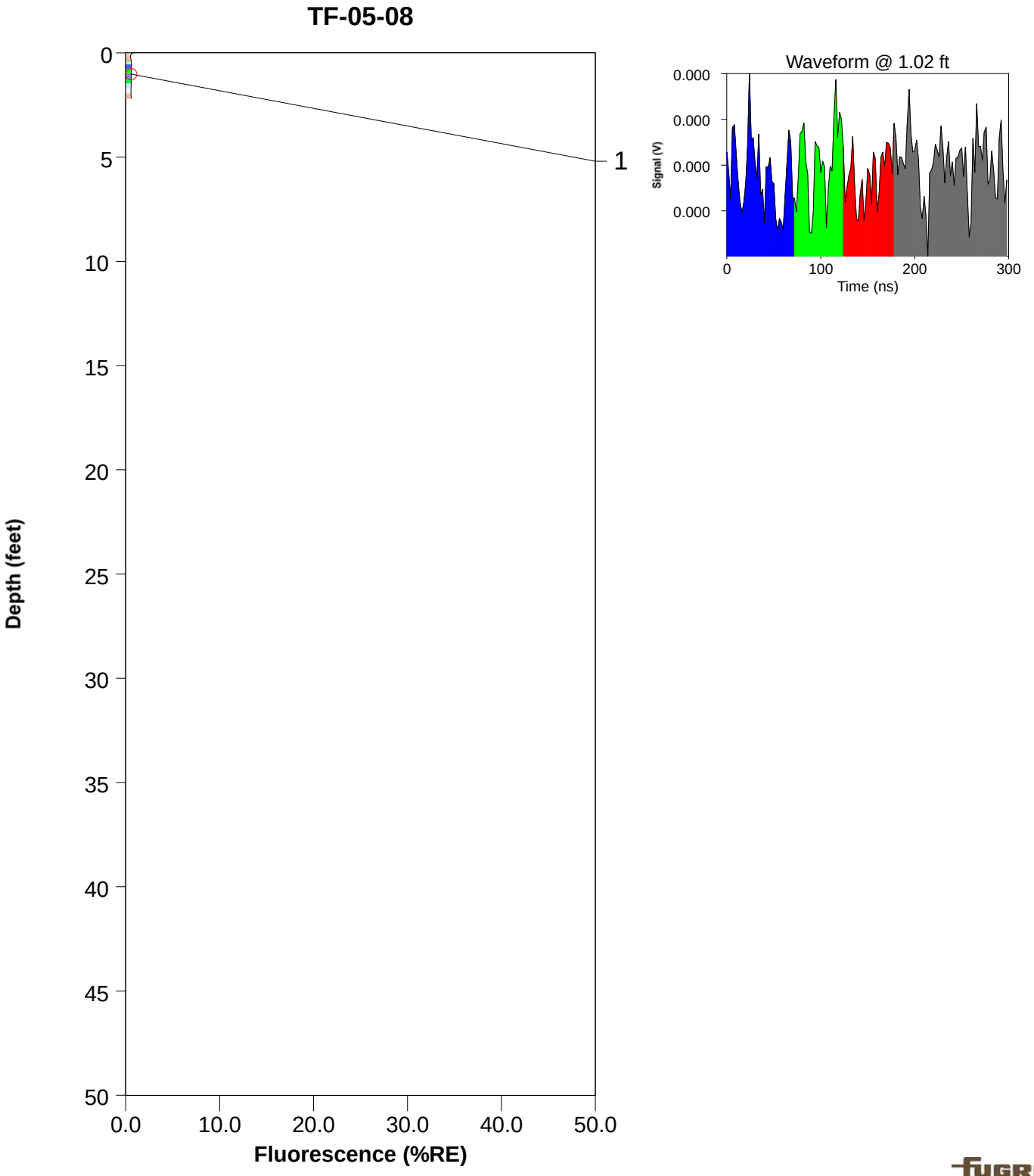
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 12:20:30 PM	Max fluorescence: 29.19% @ 3.30 ft
ROST Unit: 2	Final depth BGS: 16.36 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

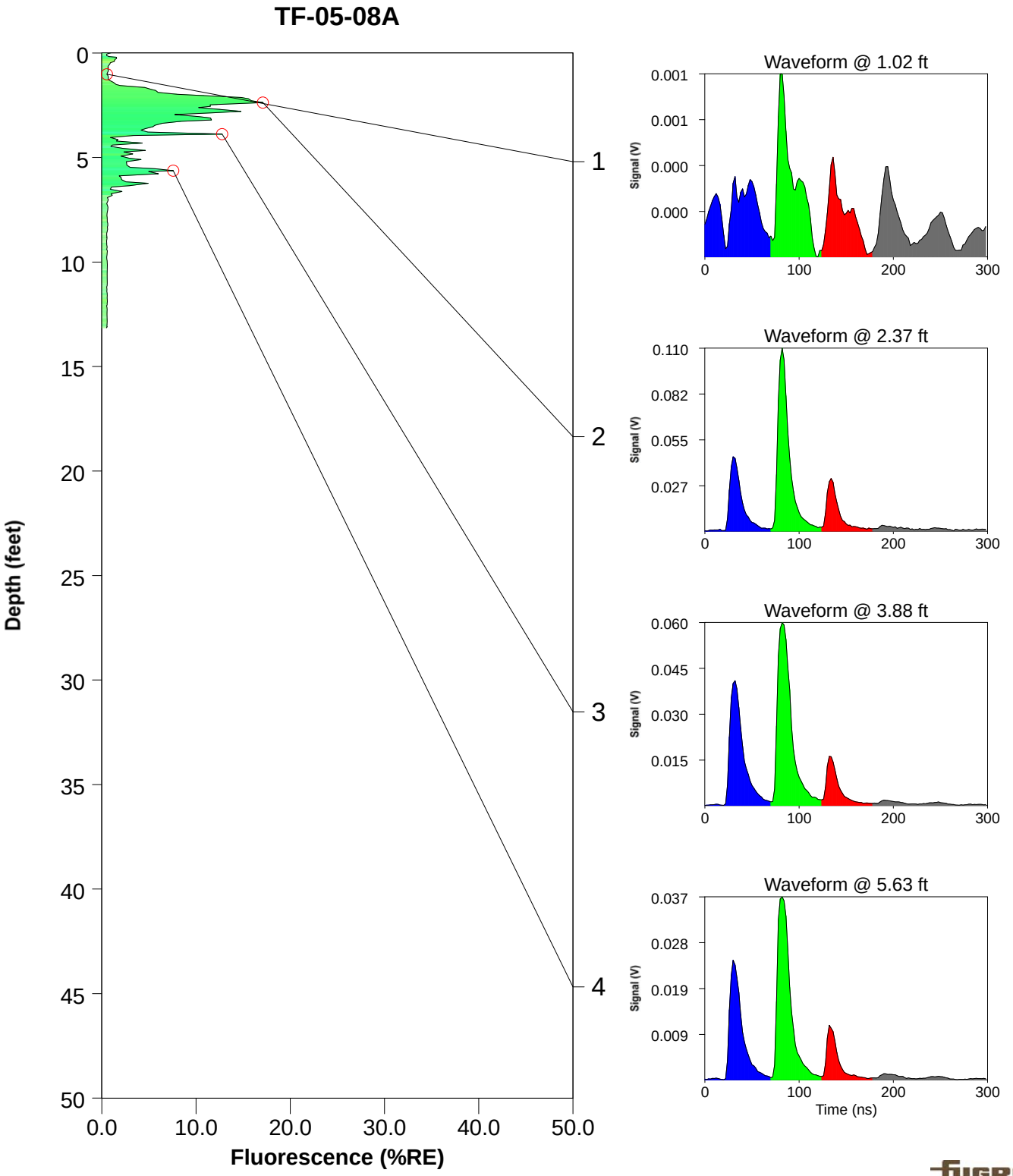
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 12:39:02 PM	Max fluorescence: 0.93% @ 0.00 ft
ROST Unit: 2	Final depth BGS: 2.19 ft



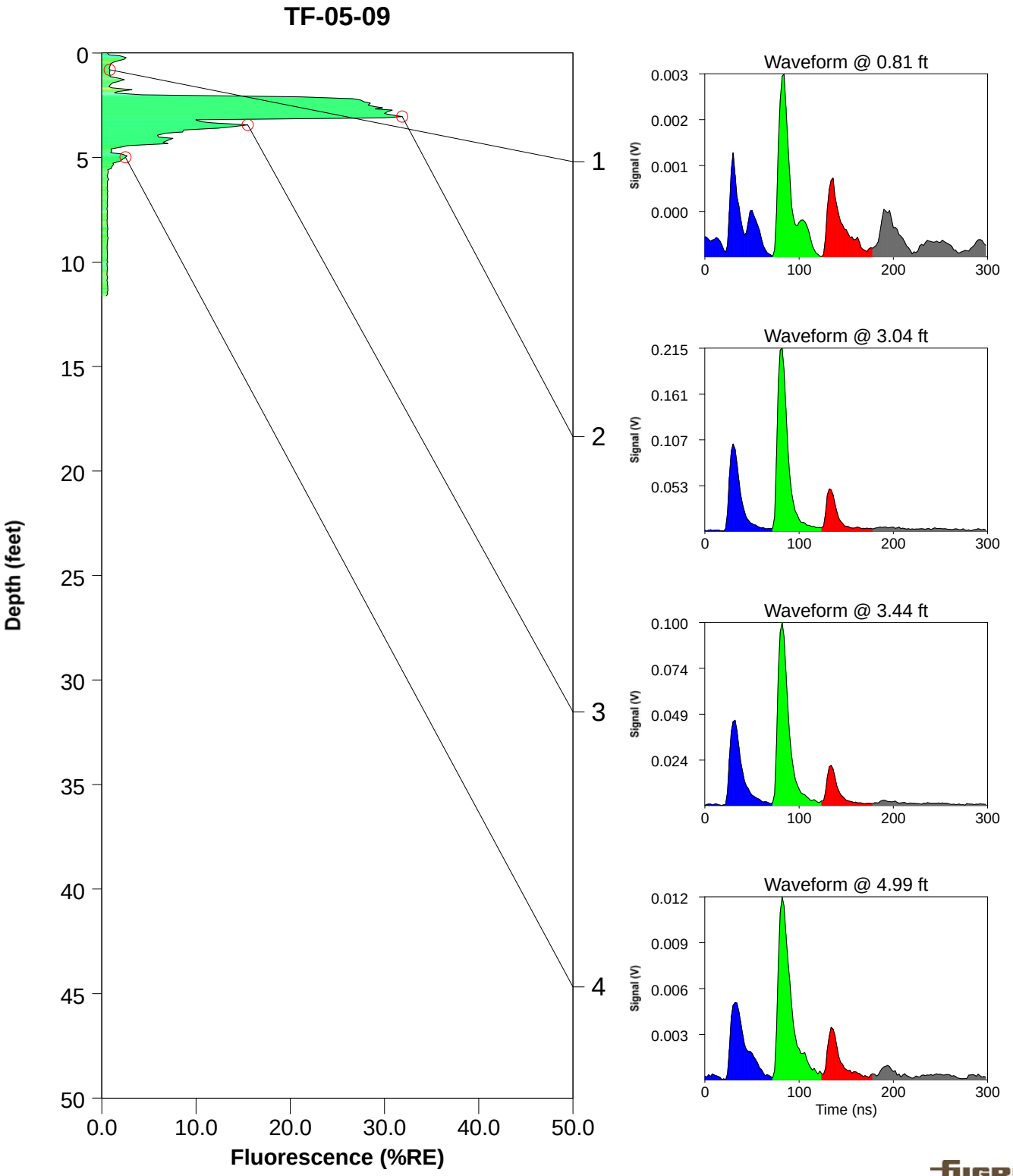
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 12:51:08 PM	Max fluorescence: 17.09% @ 2.37 ft
ROST Unit: 2	Final depth BGS: 13.15 ft



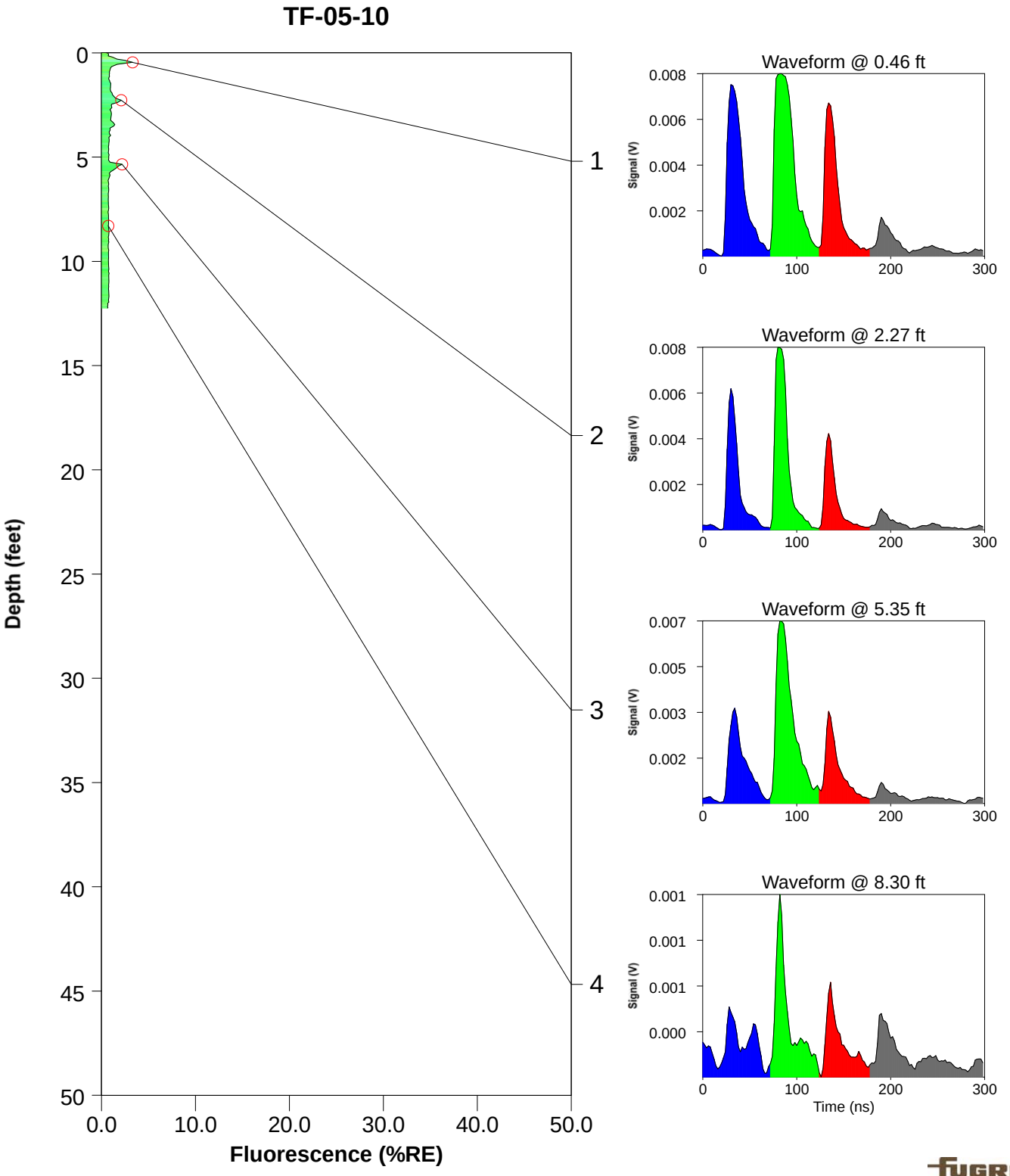
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 1:29:01 PM	Max fluorescence: 31.87% @ 3.04 ft
ROST Unit: 2	Final depth BGS: 11.62 ft



ROST Fluorescence Response Data

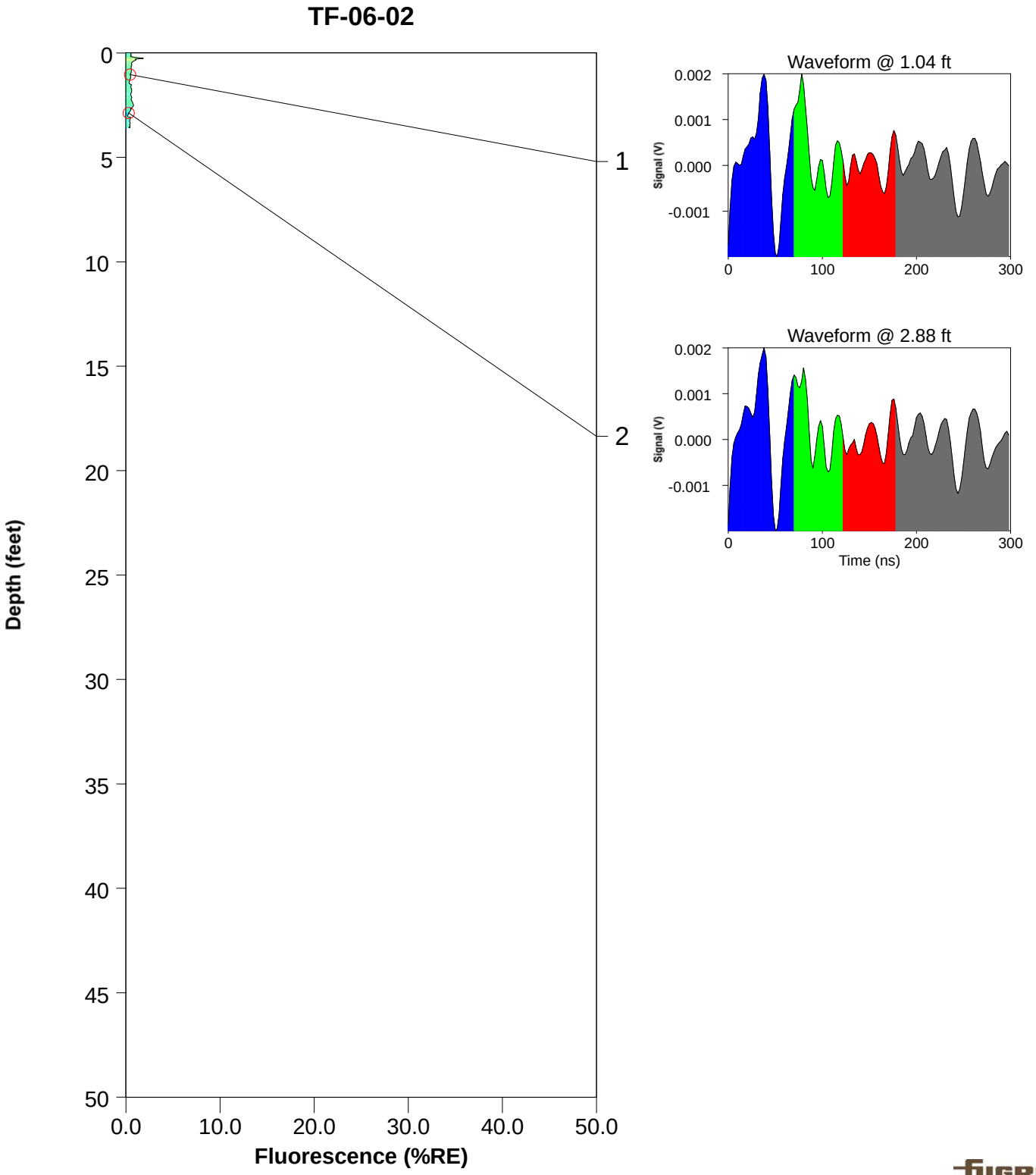
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 1:15:05 PM	Max fluorescence: 3.30% @ 0.46 ft
ROST Unit: 2	Final depth BGS: 12.24 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

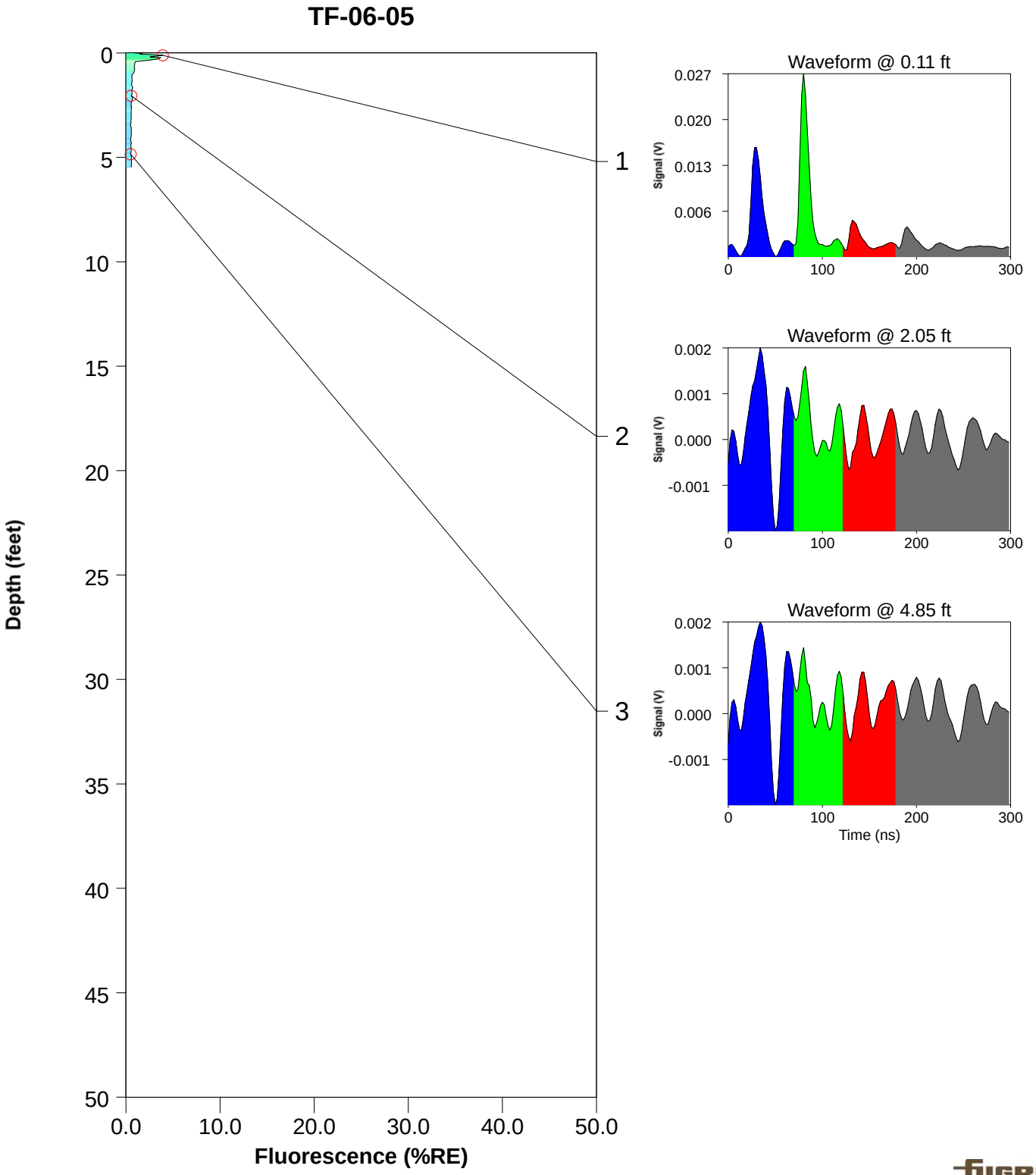
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 8:54:11 AM	Max fluorescence: 1.85% @ 0.26 ft
ROST Unit: 2	Final depth BGS: 3.59 ft



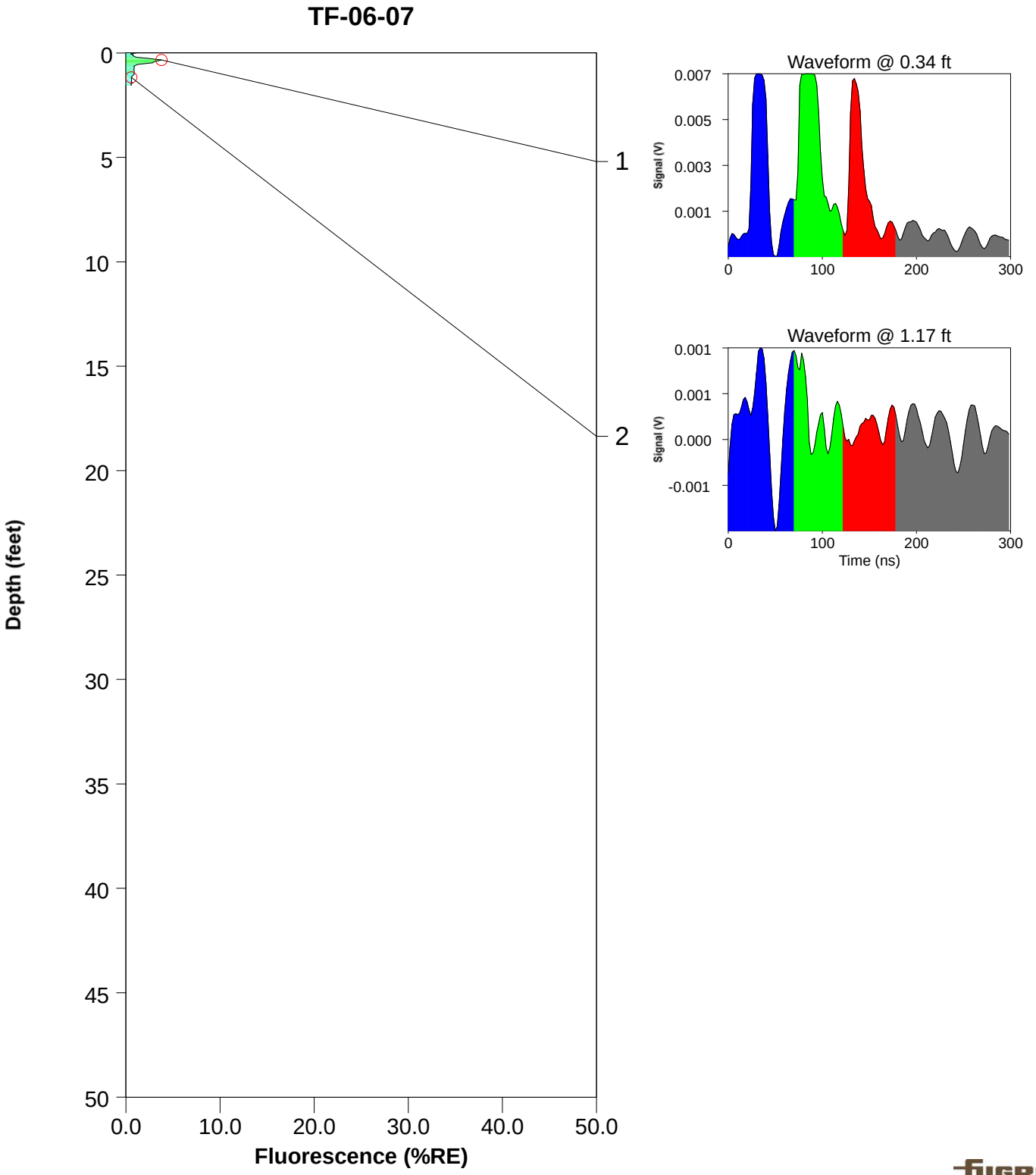
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 8:43:32 AM	Max fluorescence: 3.91% @ 0.11 ft
ROST Unit: 2	Final depth BGS: 5.46 ft



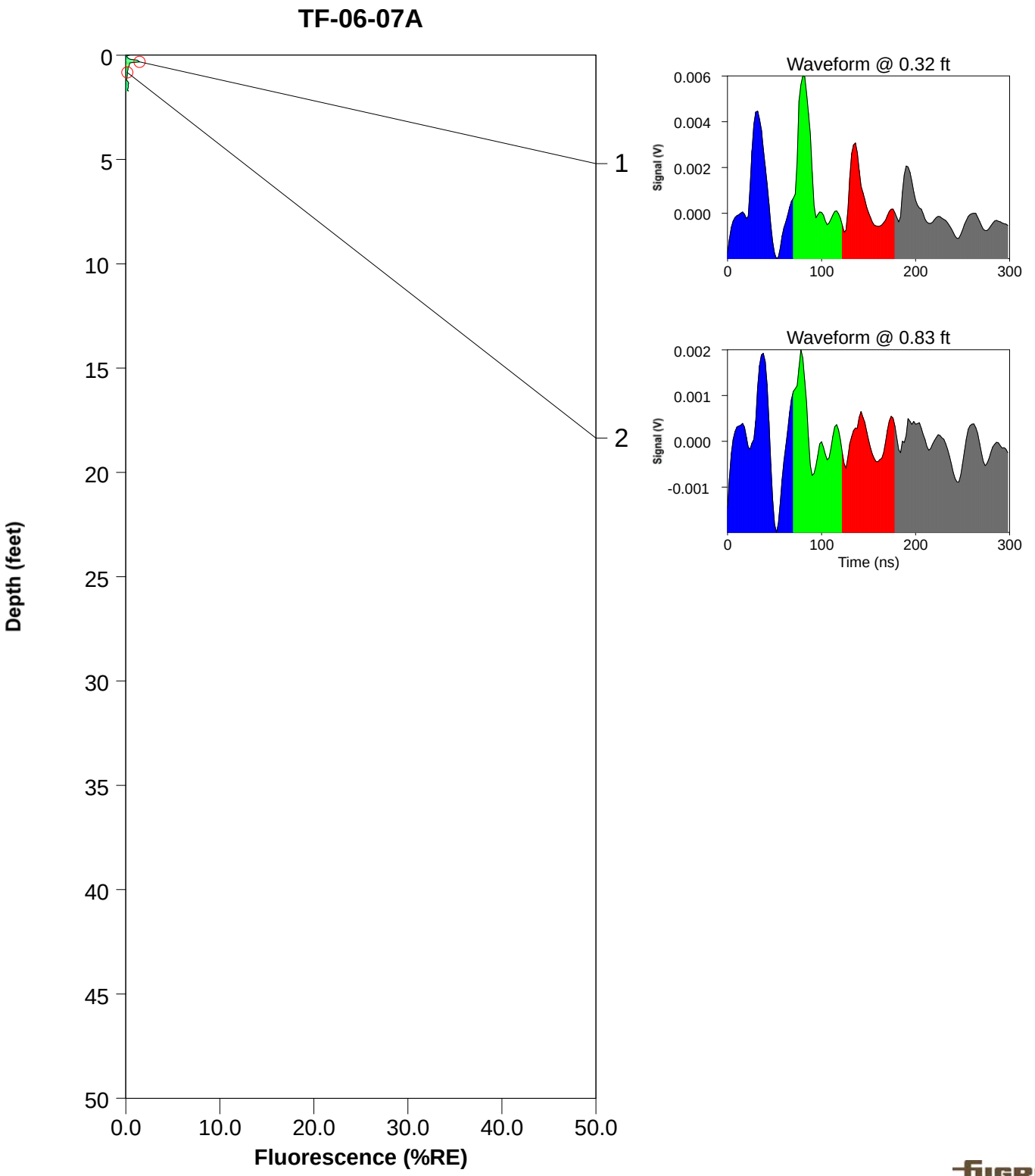
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 8:30:28 AM	Max fluorescence: 3.77% @ 0.34 ft
ROST Unit: 2	Final depth BGS: 1.55 ft



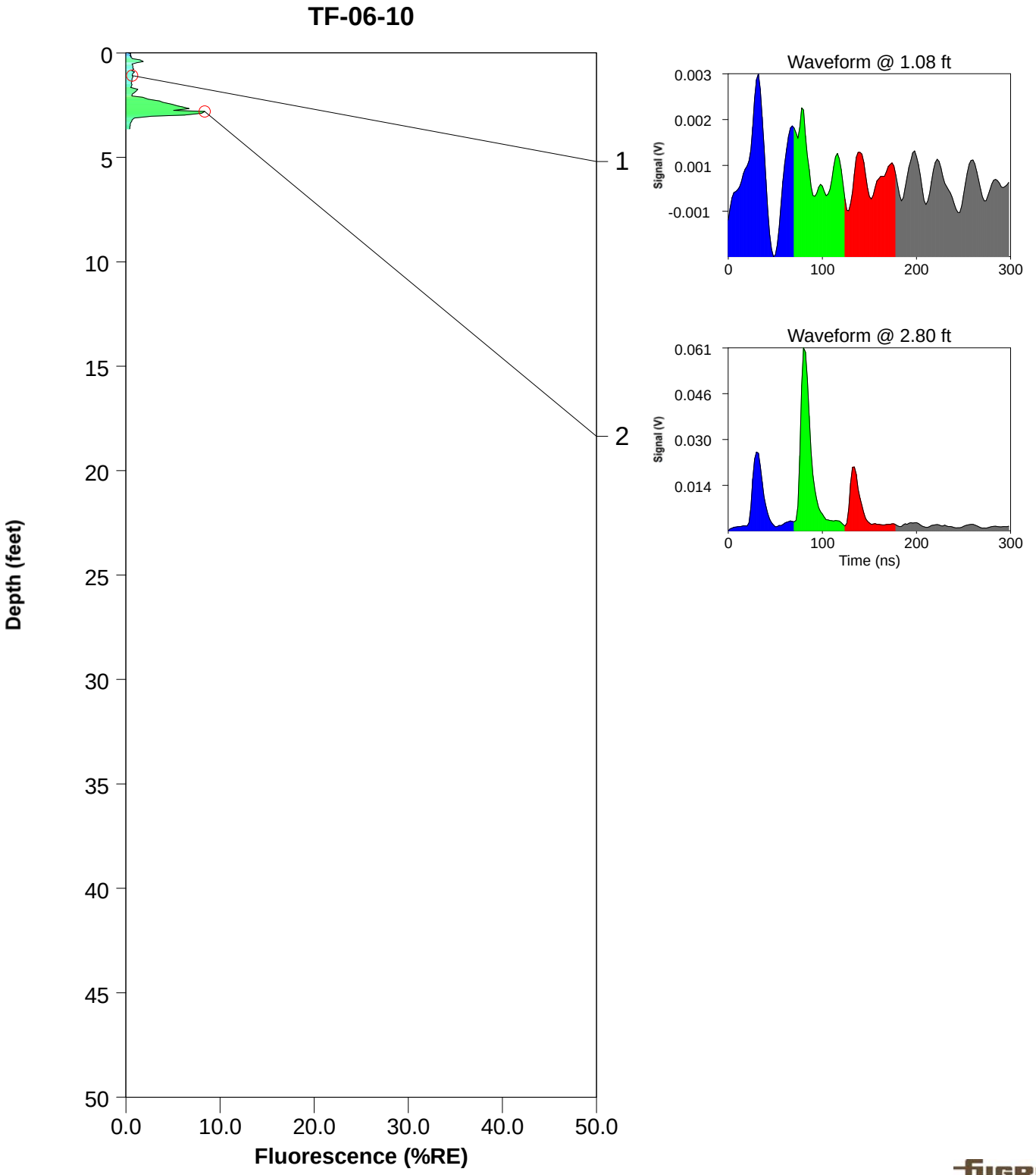
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 8:36:31 AM	Max fluorescence: 1.46% @ 0.32 ft
ROST Unit: 2	Final depth BGS: 1.72 ft



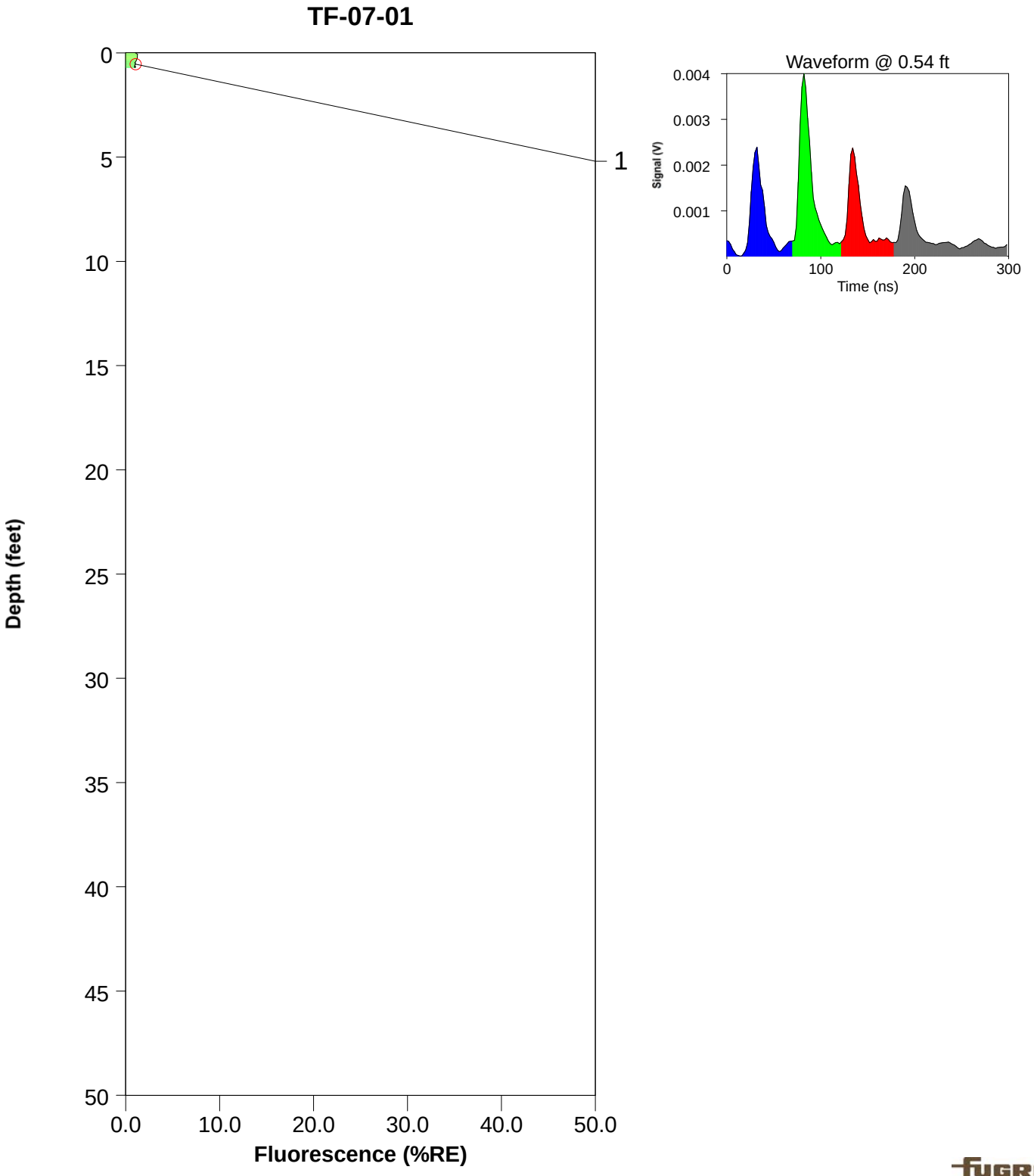
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 8:08:11 AM	Max fluorescence: 8.36% @ 2.80 ft
ROST Unit: 2	Final depth BGS: 3.64 ft



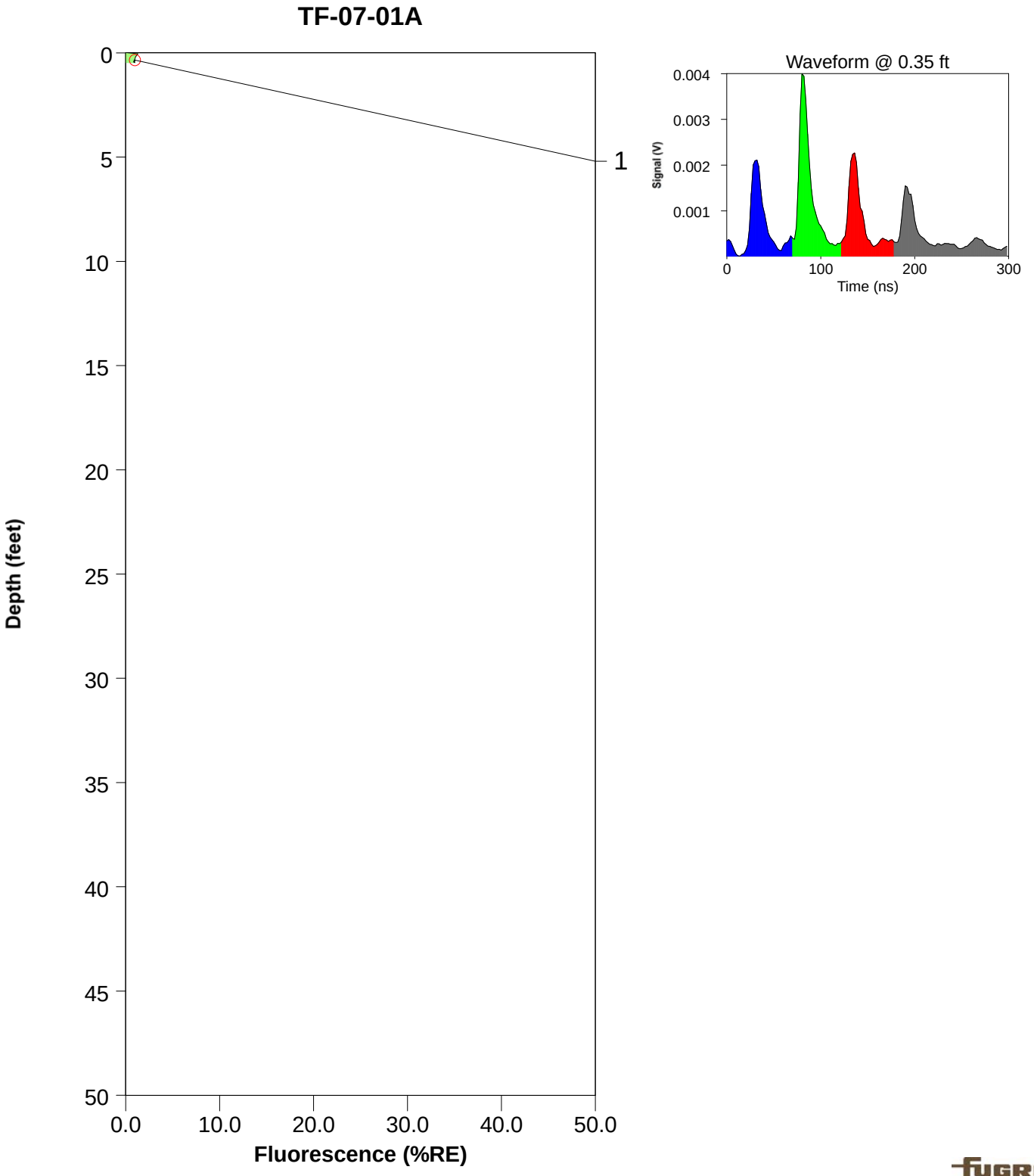
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 12:42:06 PM	Max fluorescence: 1.26% @ 0.07 ft
ROST Unit: ?	Final depth BGS: 0.70 ft



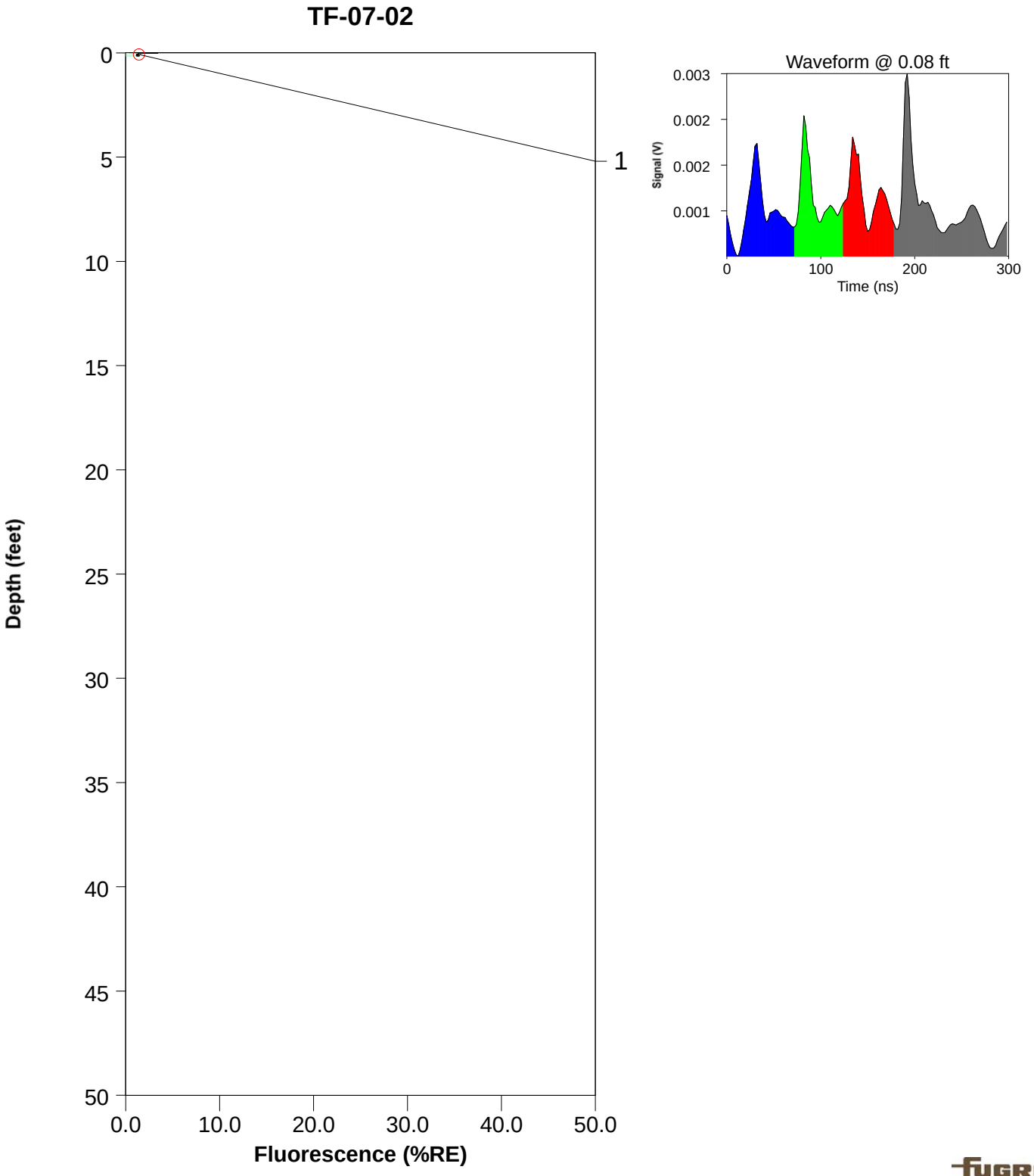
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 12:50:17 PM	Max fluorescence: 1.30% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 0.47 ft



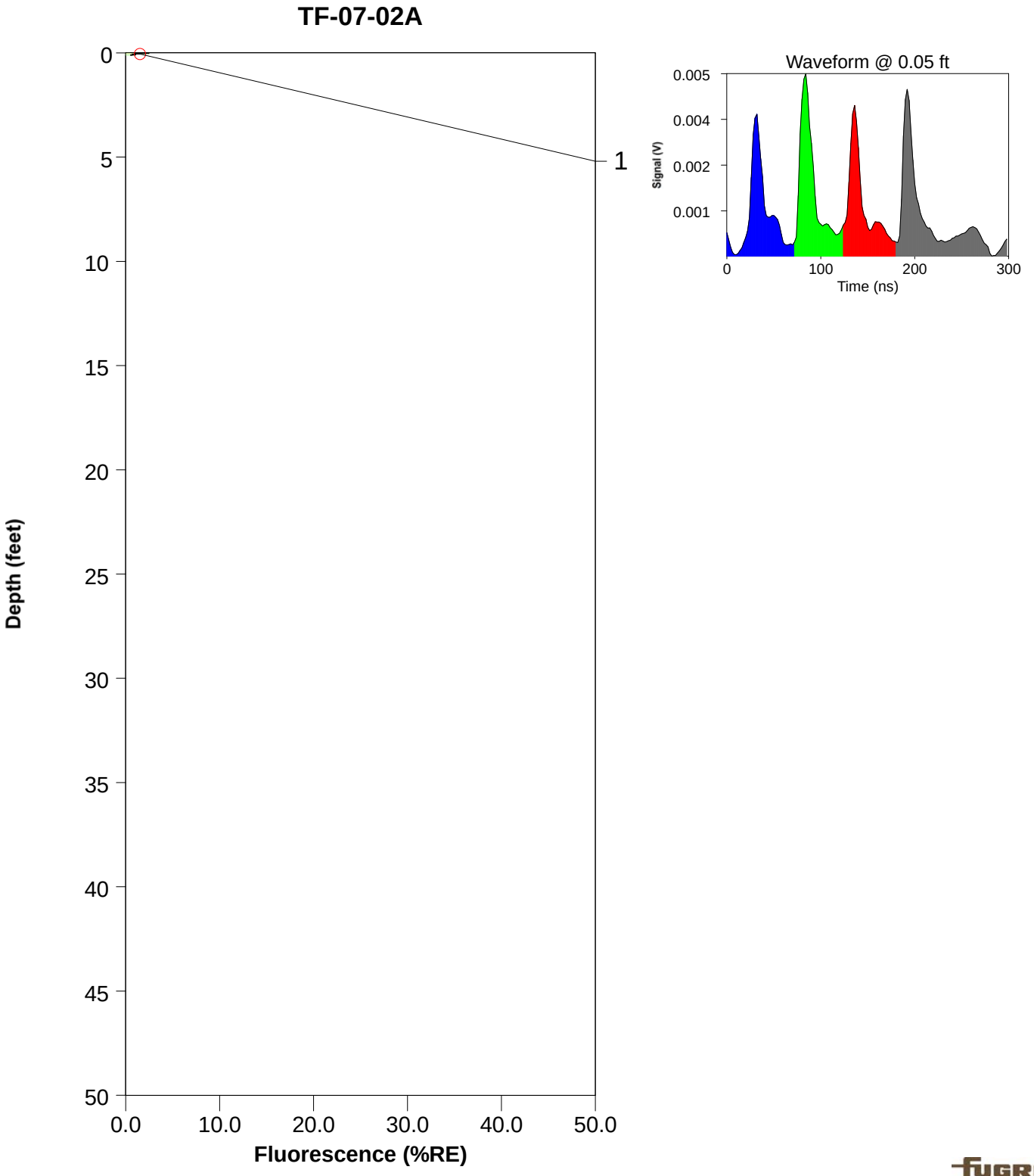
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 9:19:06 AM	Max fluorescence: 3.43% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 0.16 ft



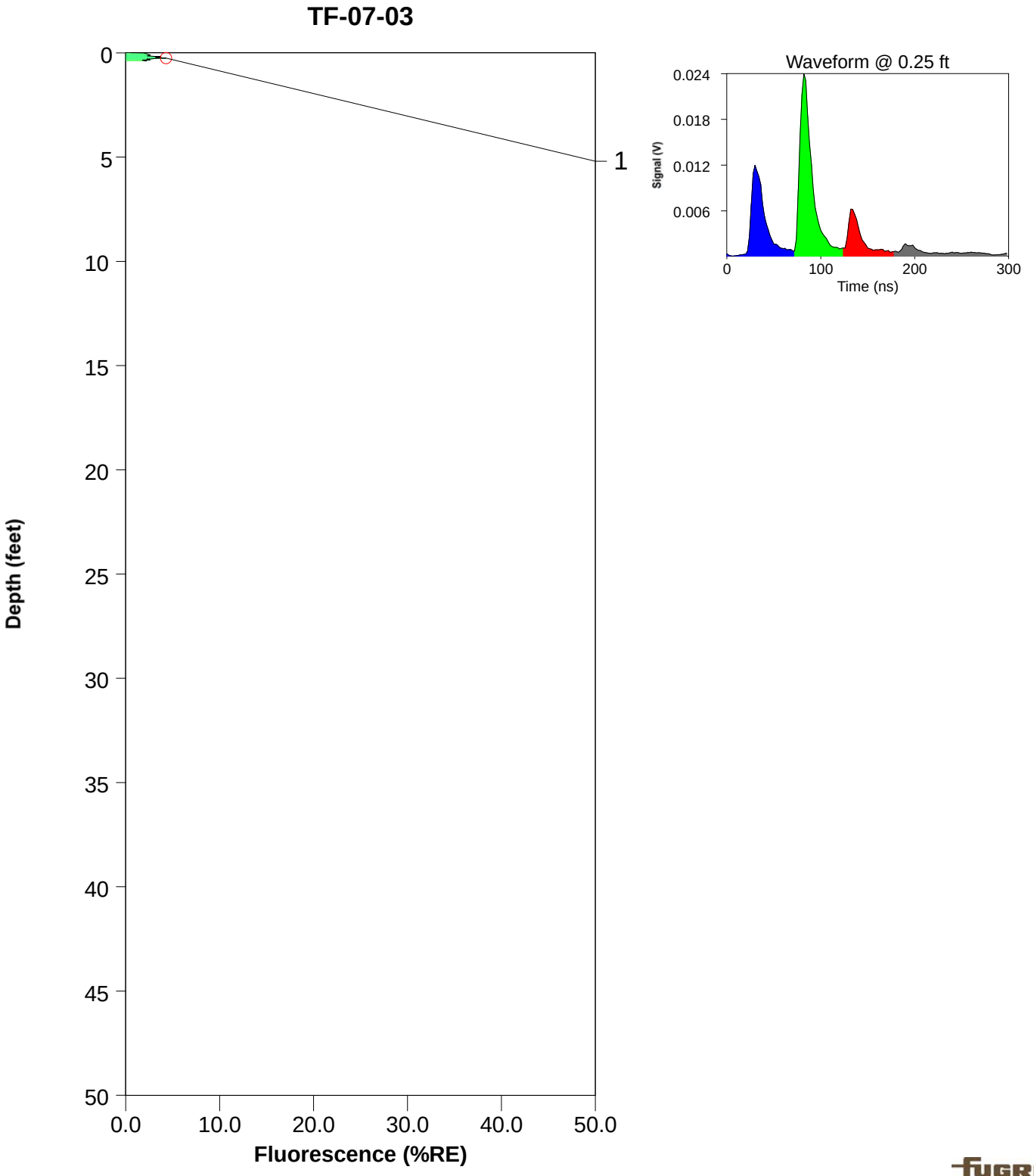
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 9:25:48 AM	Max fluorescence: 2.49% @ 0.03 ft
ROST Unit: ?	Final depth BGS: 0.11 ft



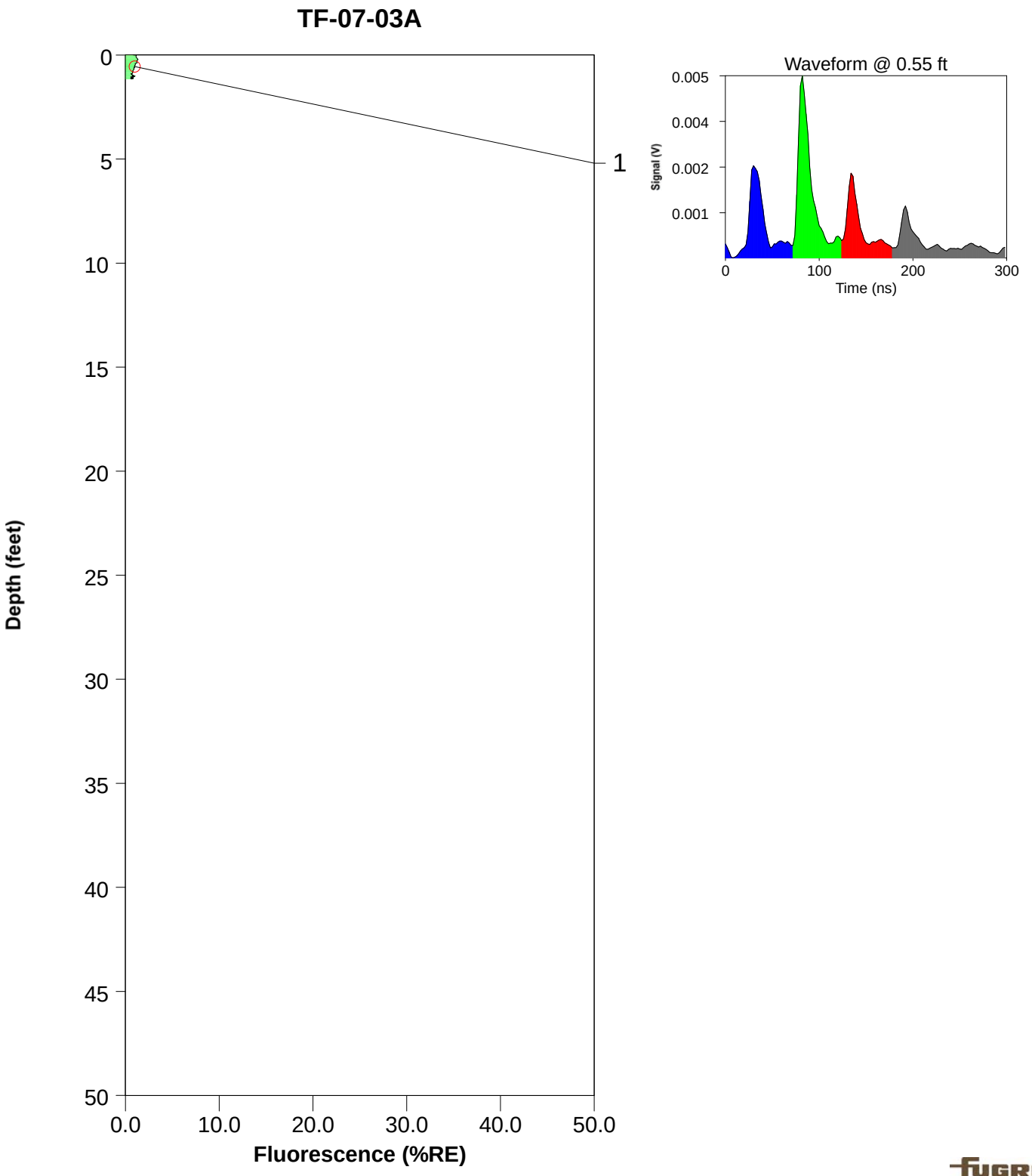
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 11:41:42 AM	Max fluorescence: 4.29% @ 0.25 ft
ROST Unit: ?	Final depth BGS: 0.38 ft



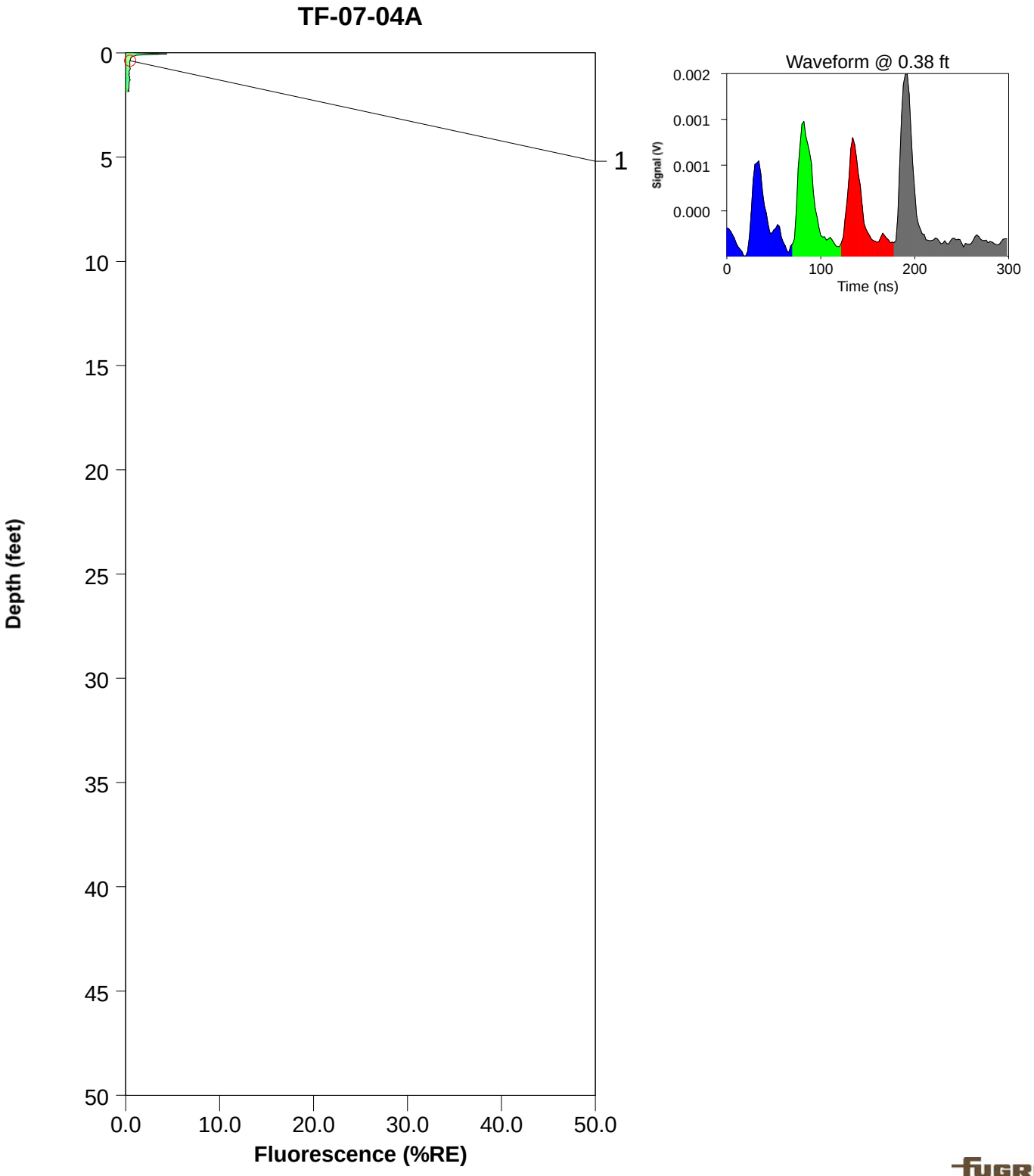
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 11:50:27 AM	Max fluorescence: 1.34% @ 0.23 ft
ROST Unit: ?	Final depth BGS: 1.15 ft



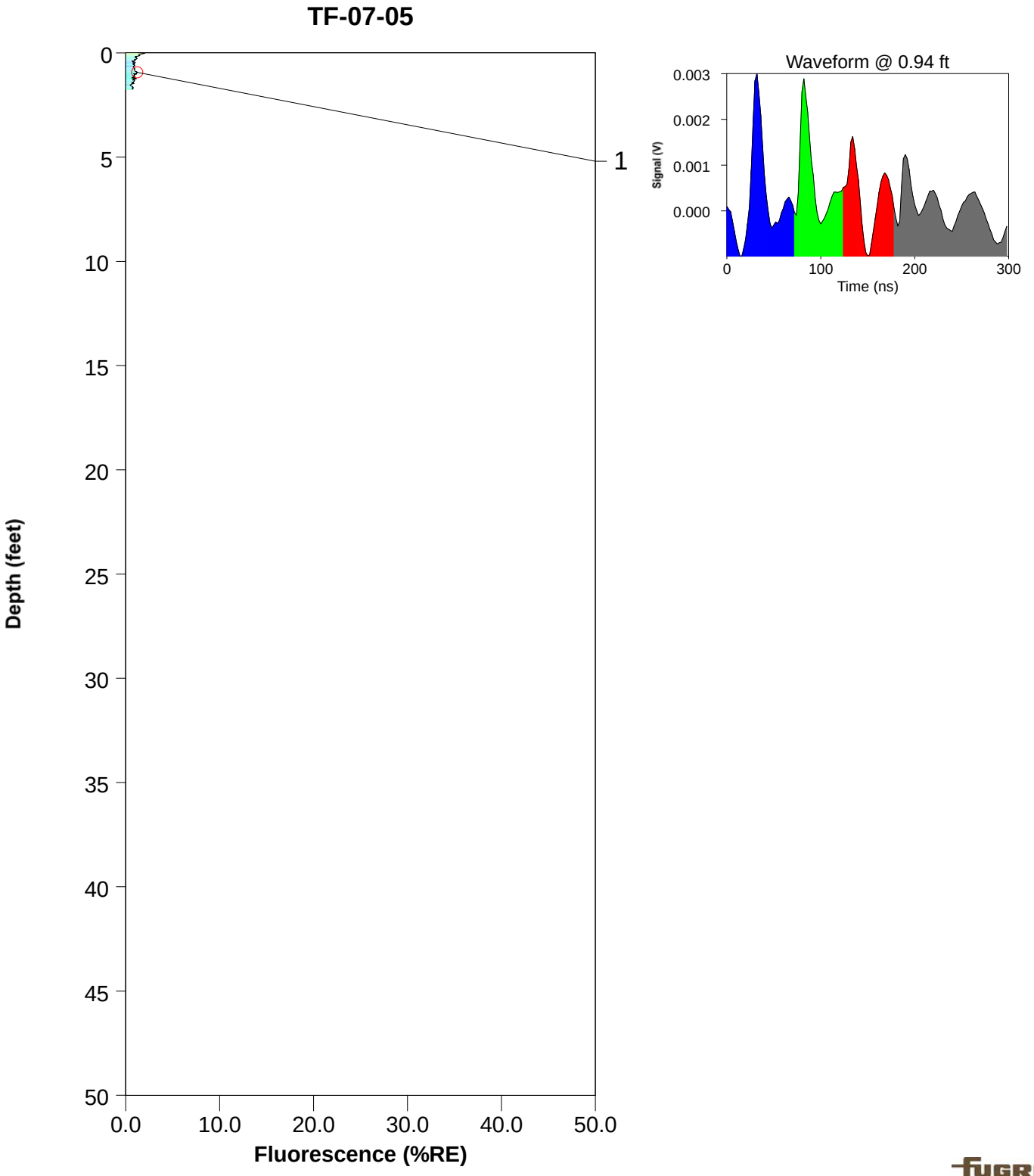
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 2:45:56 PM	Max fluorescence: 4.38% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 1.86 ft



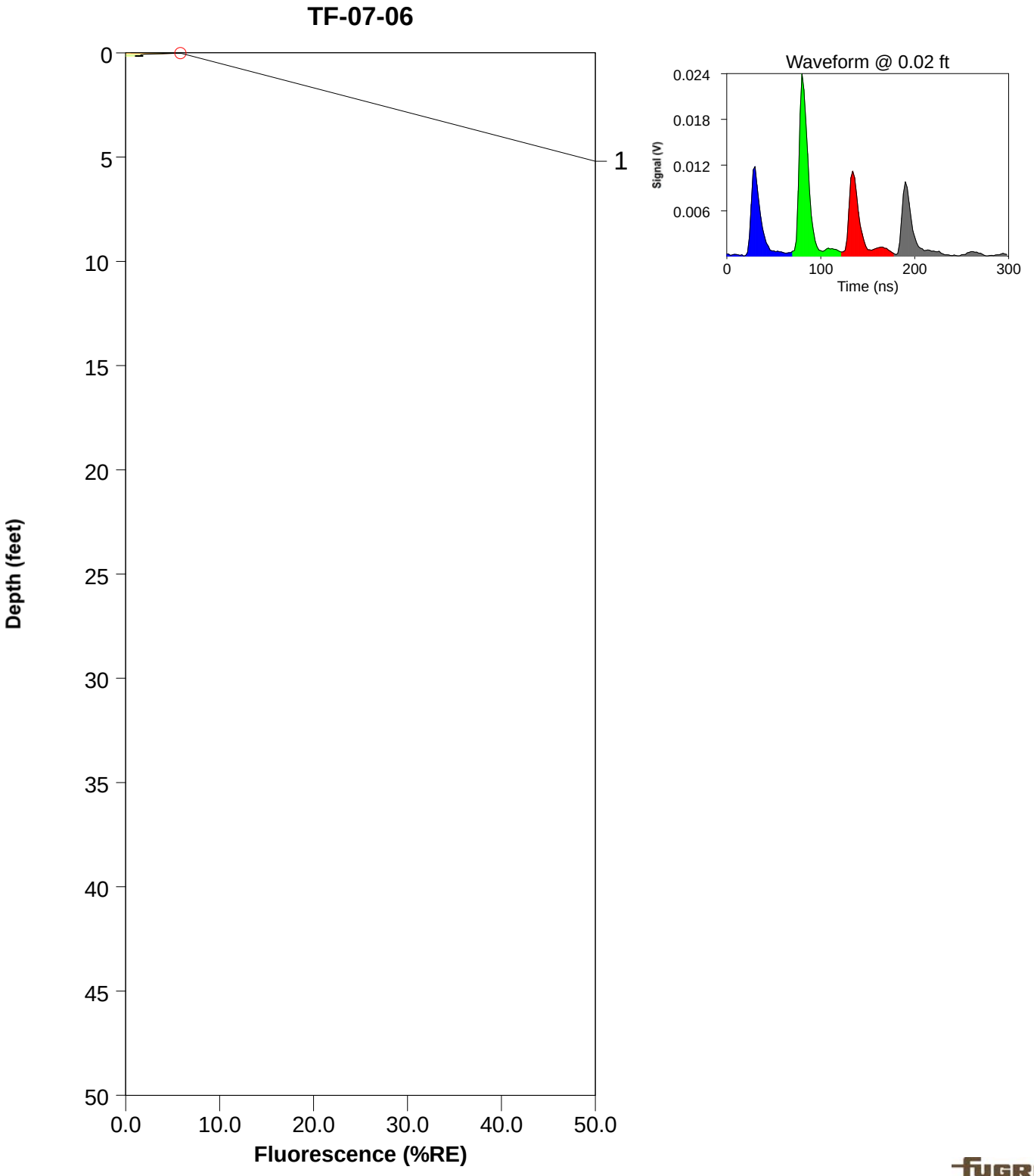
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 9:06:34 AM	Max fluorescence: 2.06% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 1.75 ft



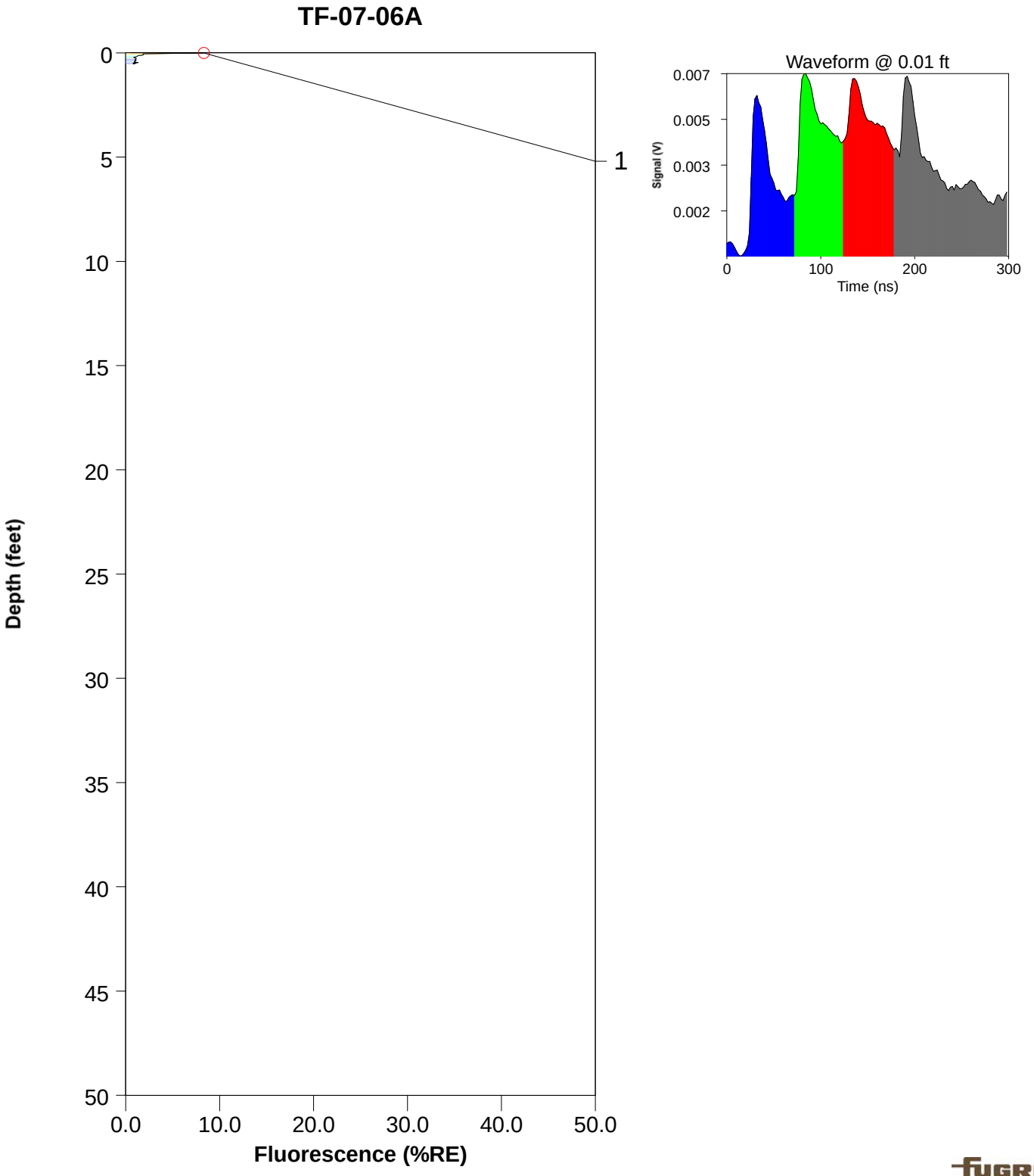
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 8:45:00 AM	Max fluorescence: 5.82% @ 0.02 ft
ROST Unit: ?	Final depth BGS: 0.17 ft



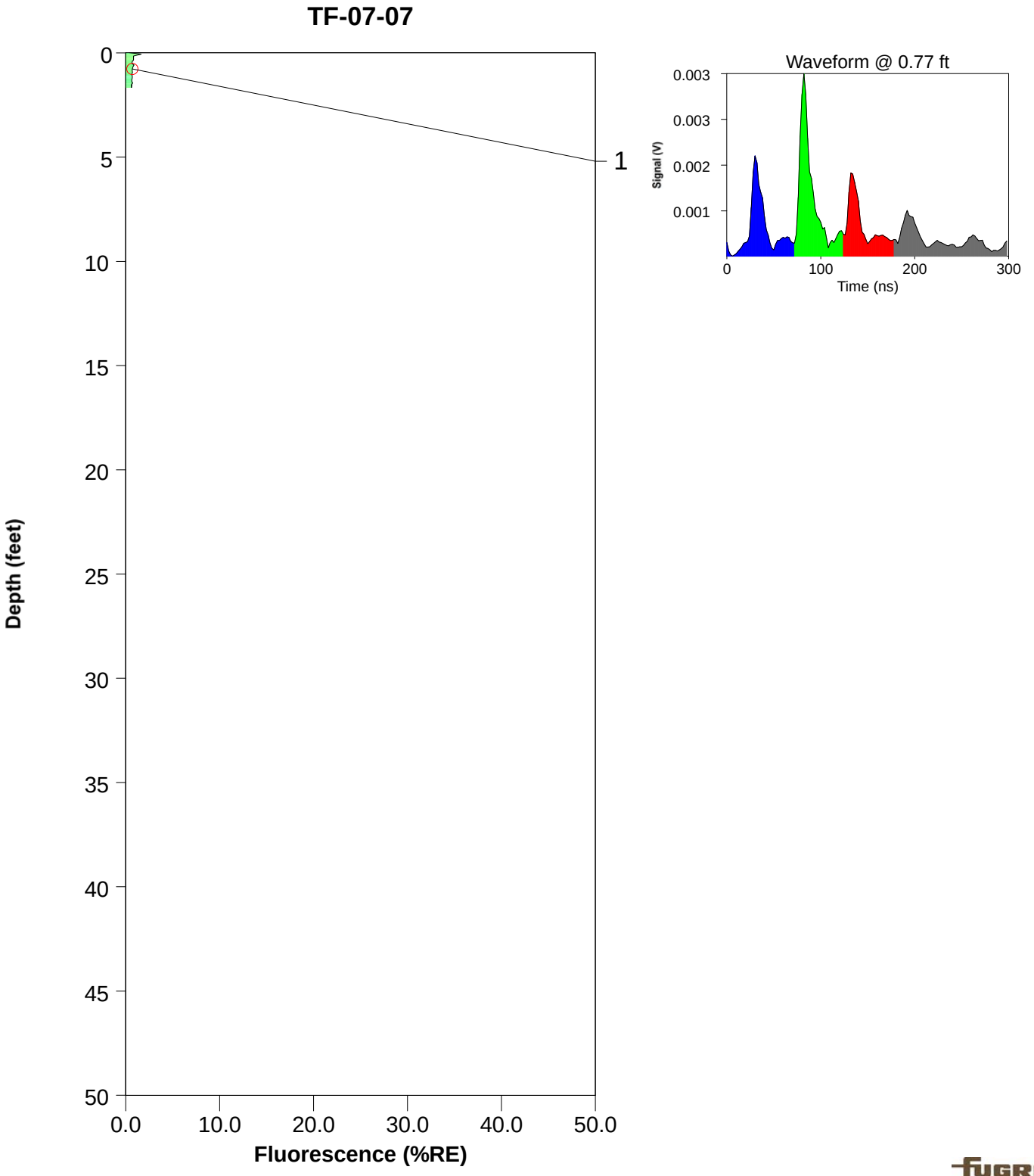
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 8:51:51 AM	Max fluorescence: 8.32% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 0.51 ft



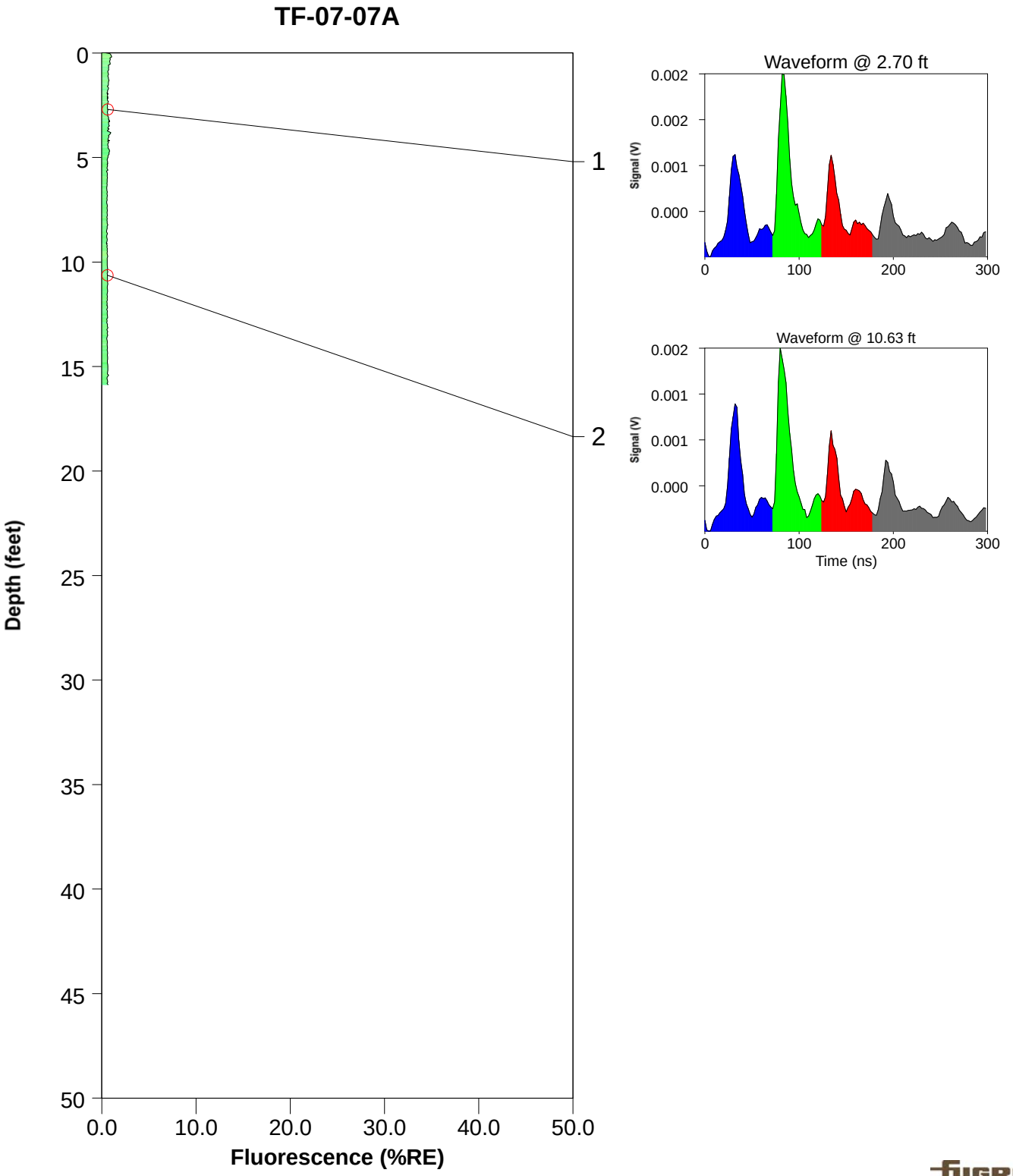
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 12:09:49 PM	Max fluorescence: 1.63% @ 0.06 ft
ROST Unit: ?	Final depth BGS: 1.65 ft



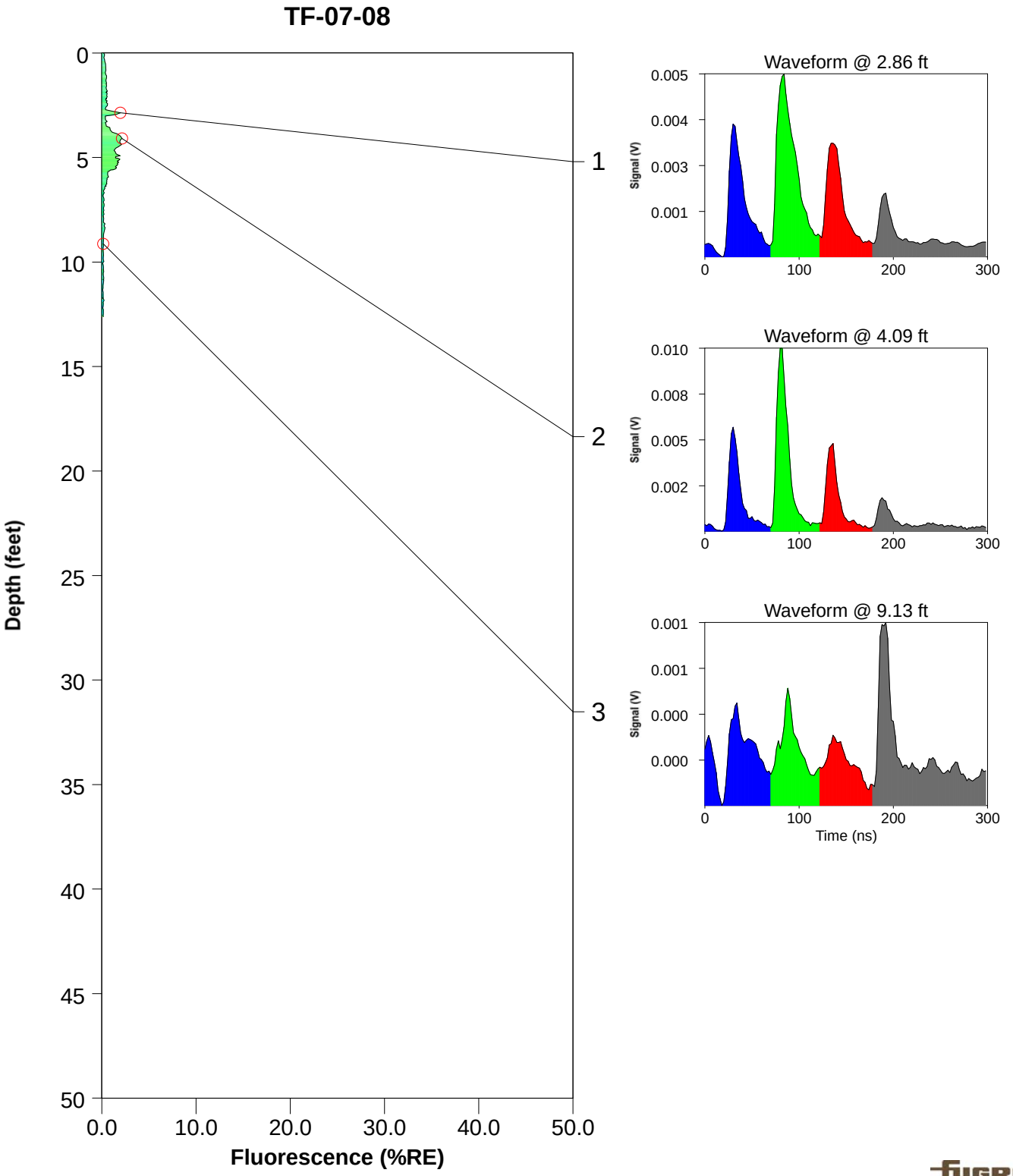
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 12:18:32 PM	Max fluorescence: 1.05% @ 0.19 ft
ROST Unit: ?	Final depth BGS: 15.87 ft



ROST Fluorescence Response Data

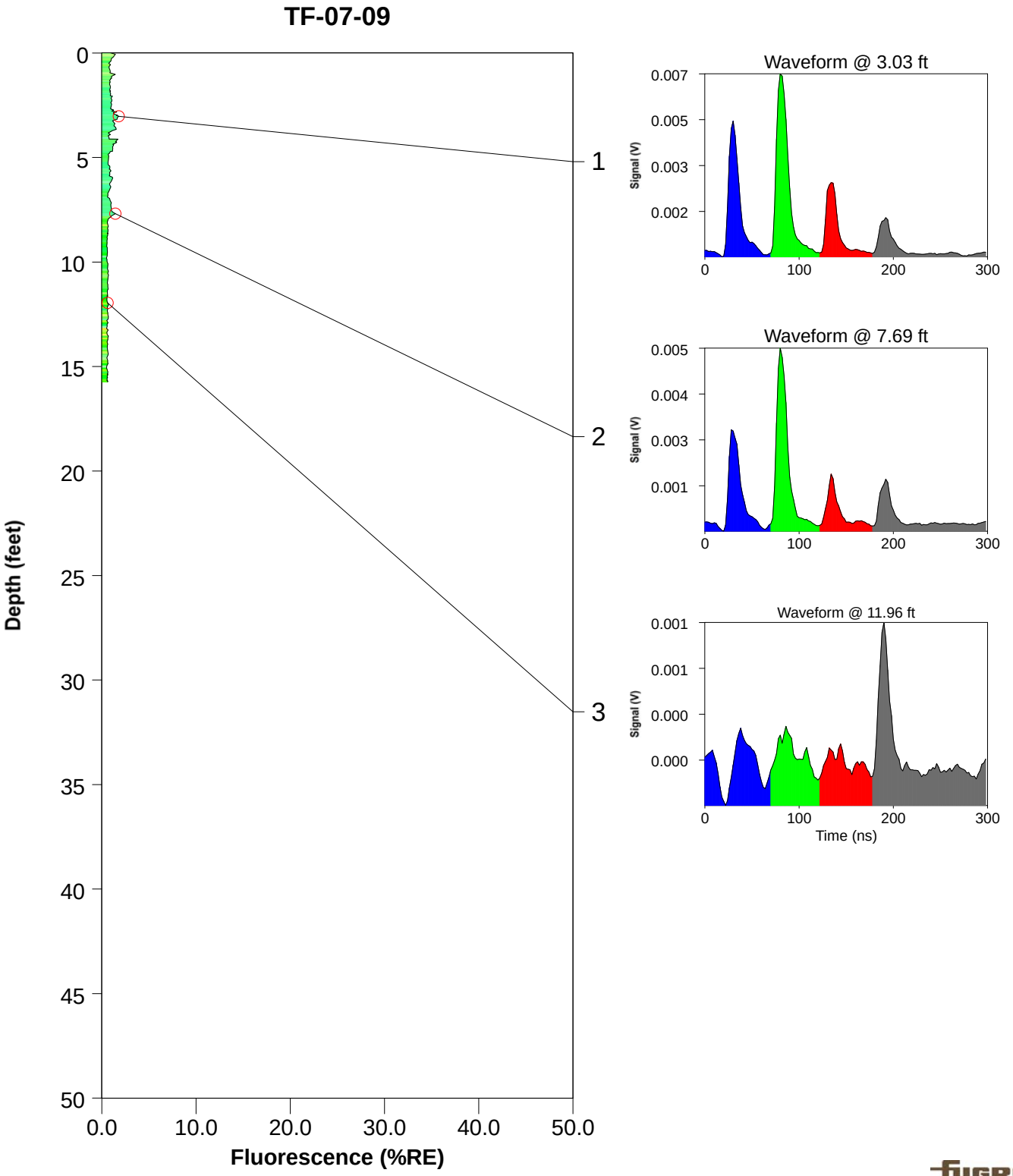
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 3:37:55 PM	Max fluorescence: 2.14% @ 4.09 ft
ROST Unit: ?	Final depth BGS: 12.61 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

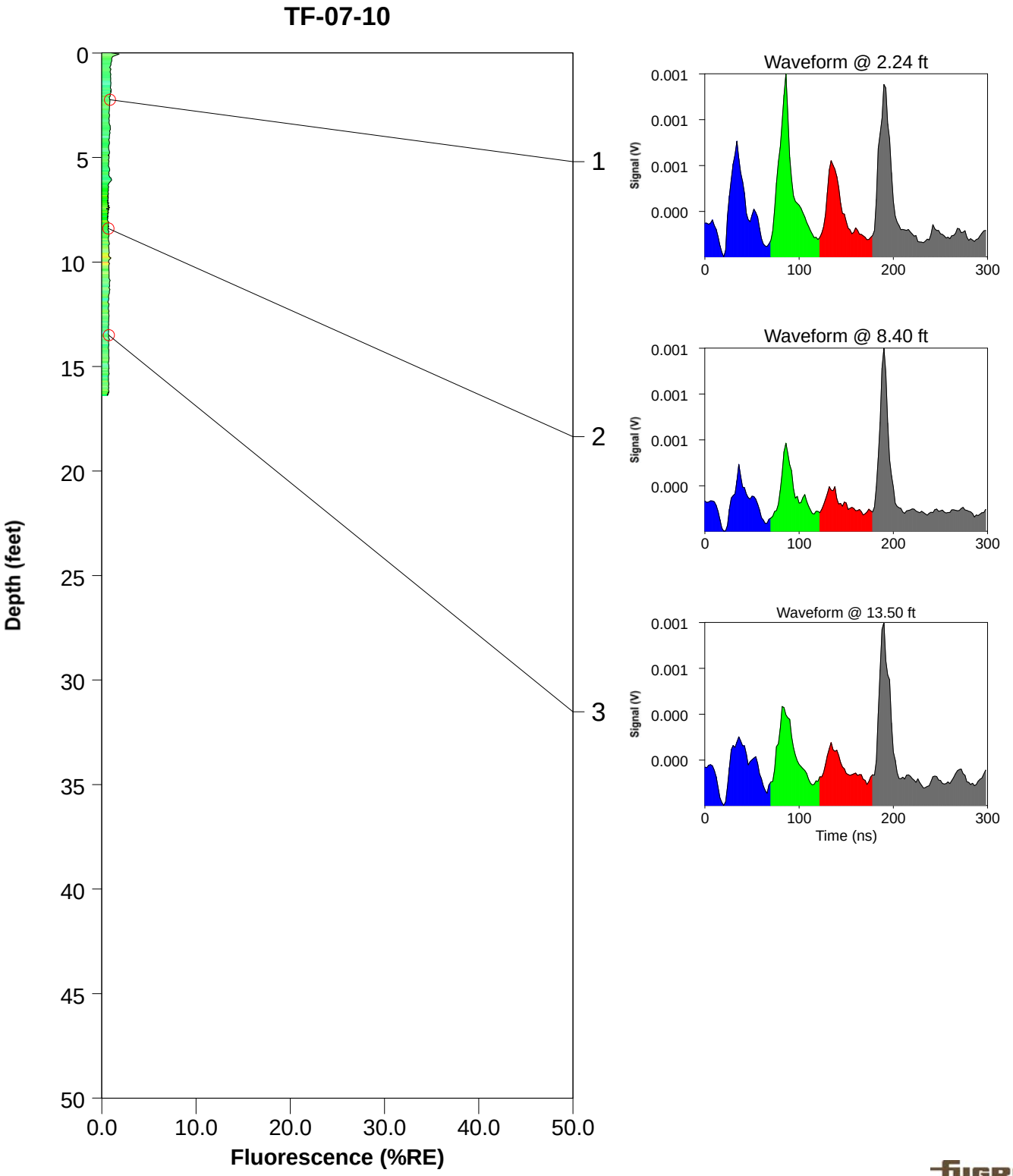
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 3:19:15 PM	Max fluorescence: 1.79% @ 3.03 ft
ROST Unit: ?	Final depth BGS: 15.74 ft



ROST Fluorescence Response Data

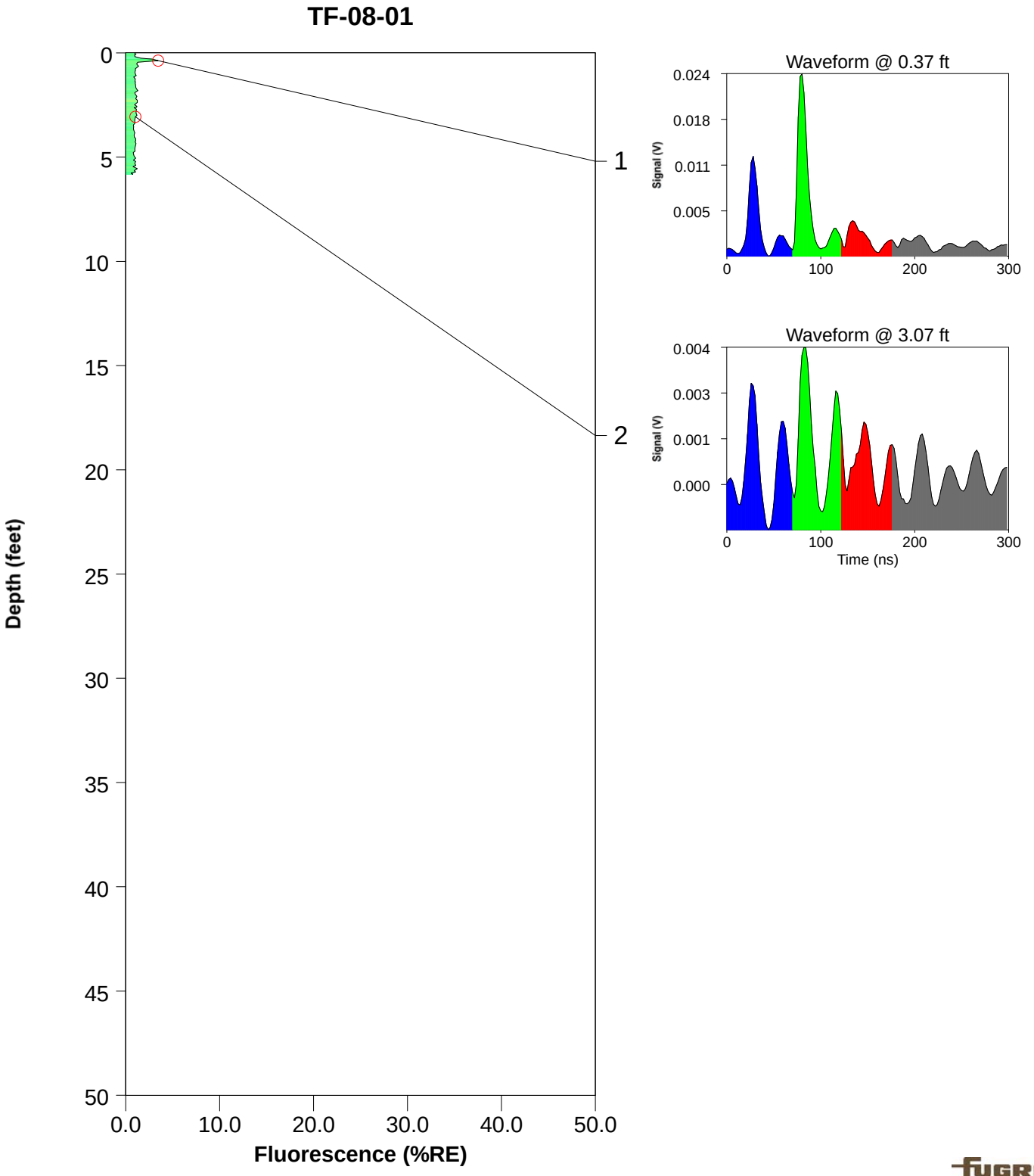
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/7/2015 @ 2:55:00 PM	Max fluorescence: 1.83% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 16.38 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

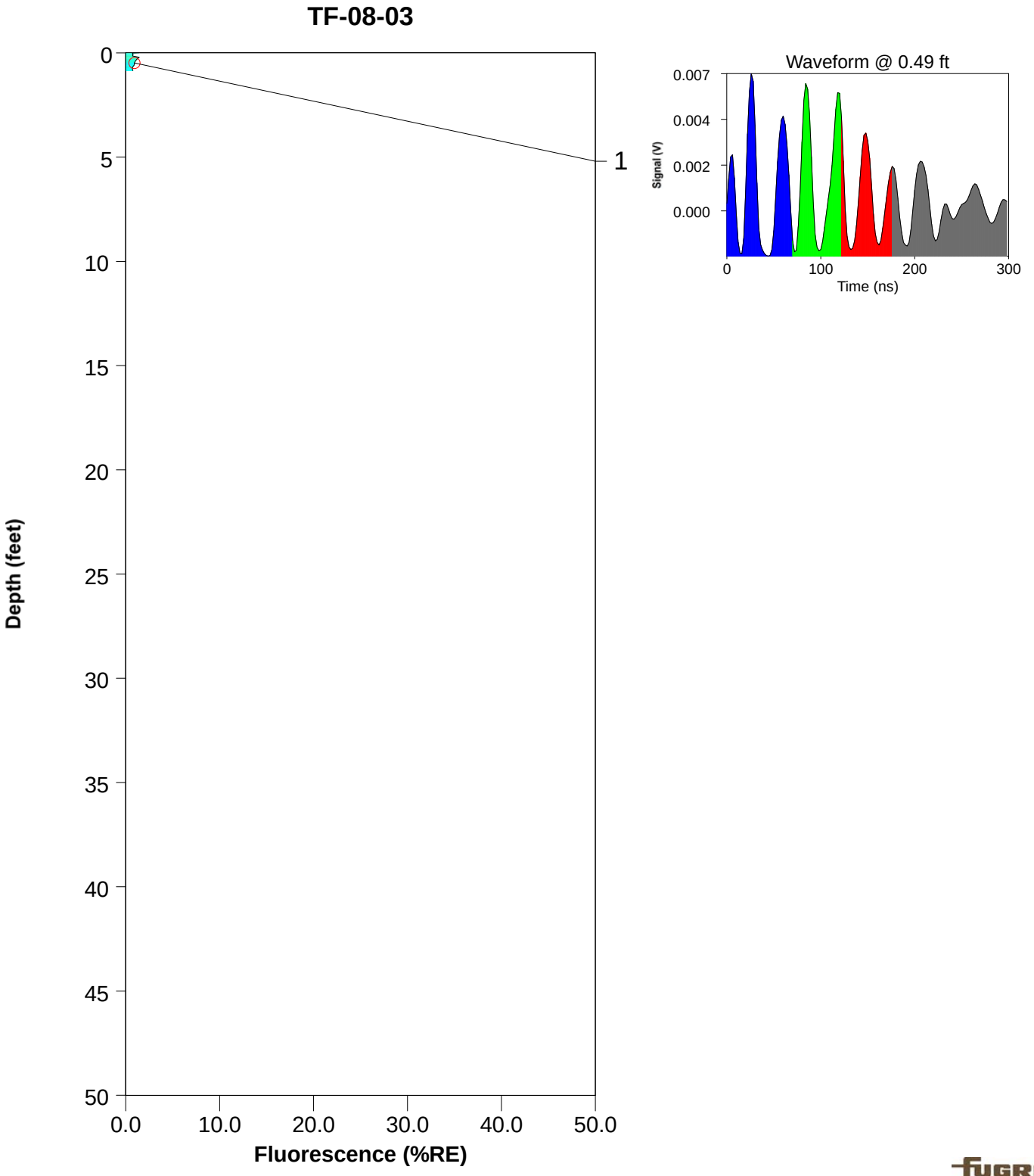
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 1:32:51 PM	Max fluorescence: 3.45% @ 0.37 ft
ROST Unit: 2	Final depth BGS: 5.83 ft



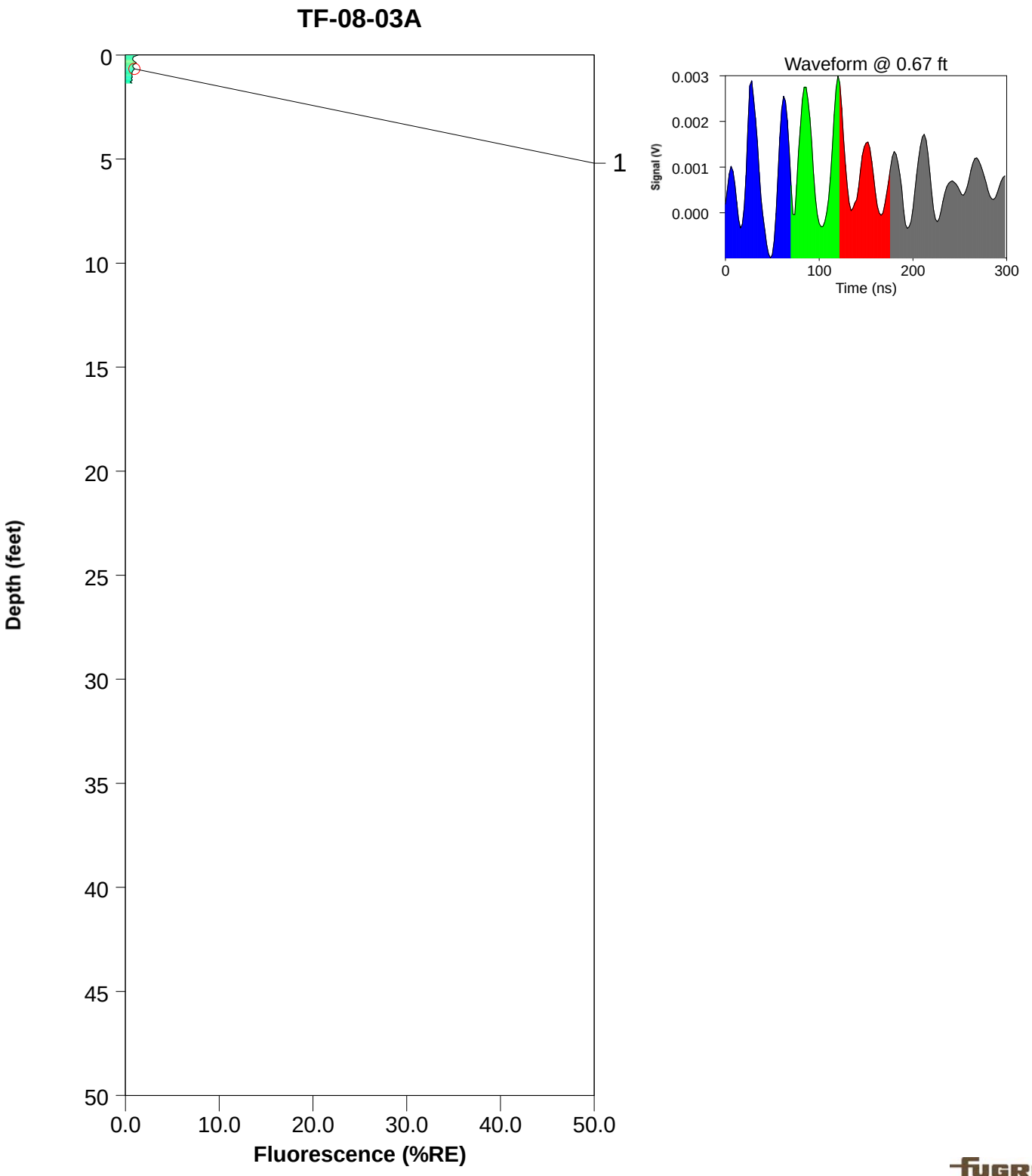
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 1:52:21 PM	Max fluorescence: 1.43% @ 0.21 ft
ROST Unit: 2	Final depth BGS: 0.86 ft



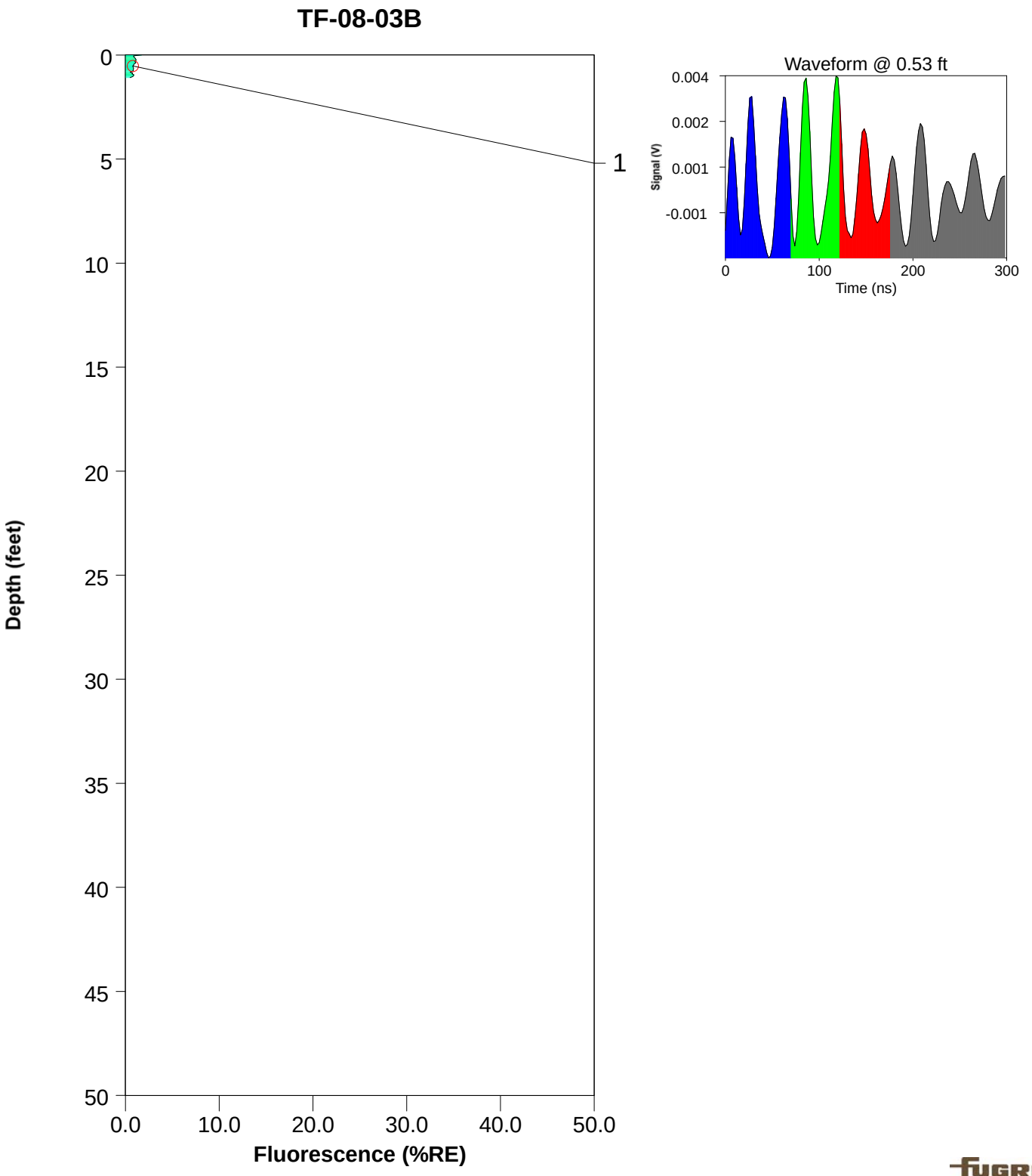
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 1:56:31 PM	Max fluorescence: 1.38% @ 0.00 ft
ROST Unit: 2	Final depth BGS: 1.35 ft



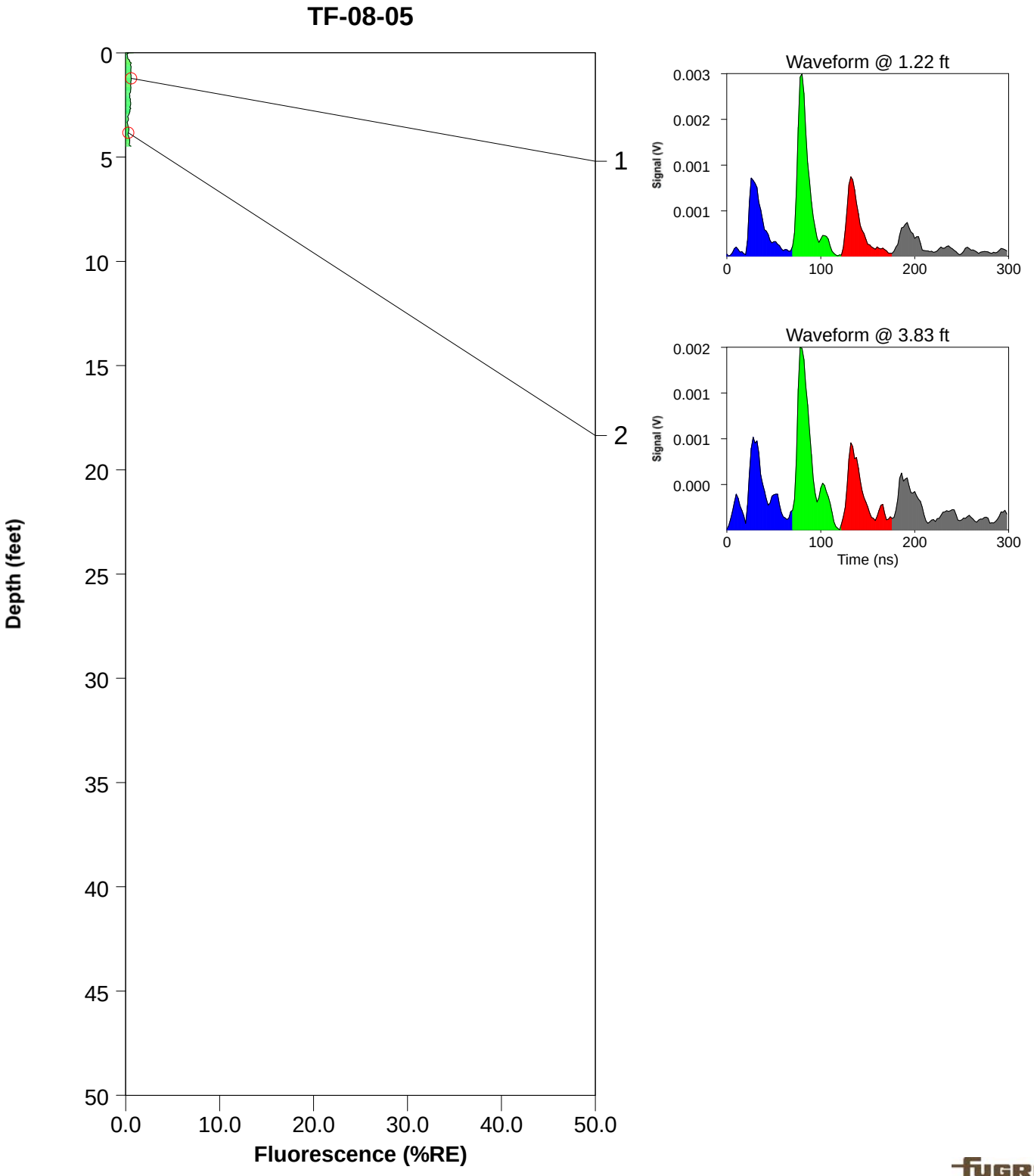
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 2:03:47 PM	Max fluorescence: 1.75% @ 0.00 ft
ROST Unit: 2	Final depth BGS: 1.09 ft



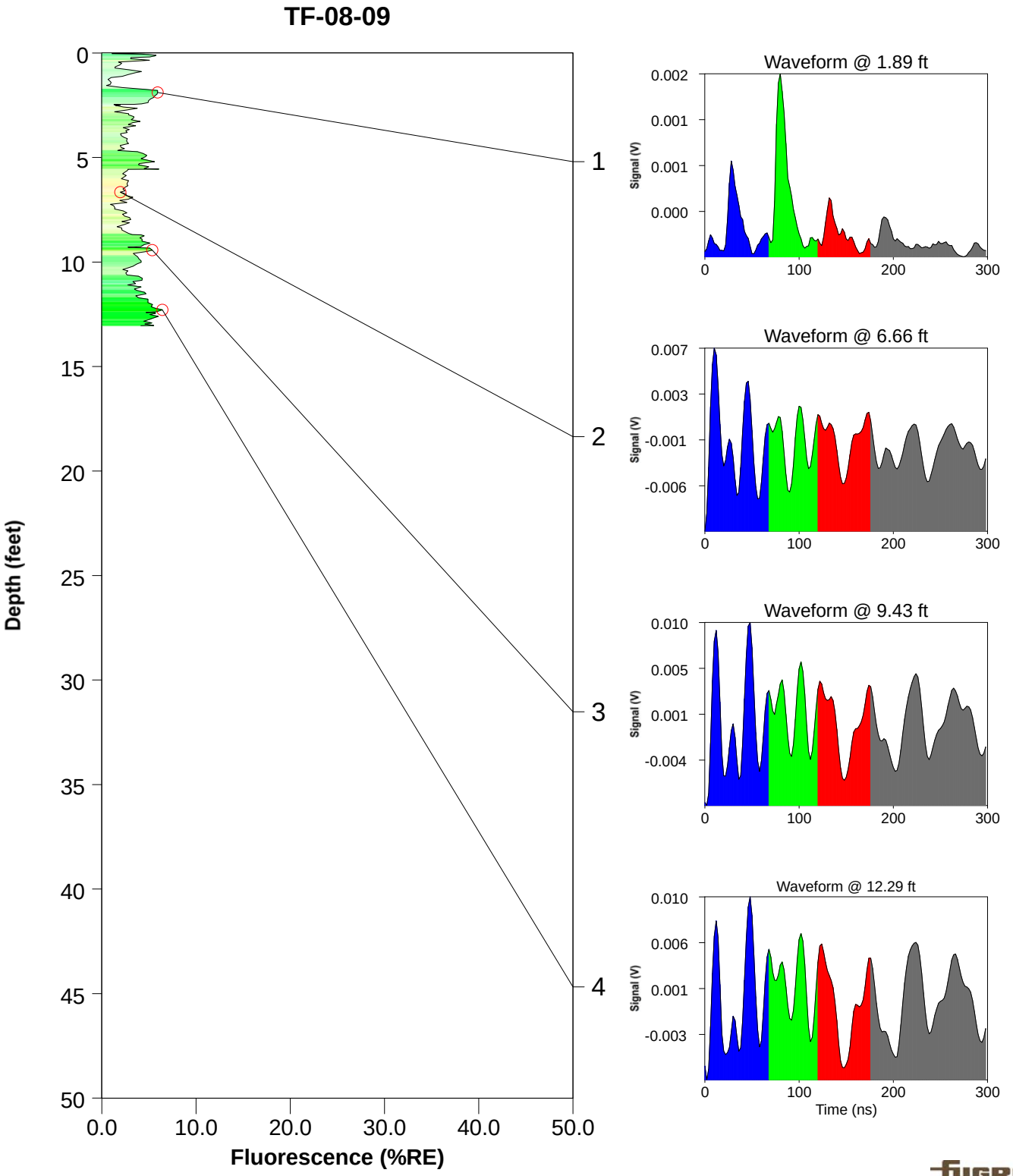
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 2:16:11 PM	Max fluorescence: 0.85% @ 0.00 ft
ROST Unit: 2	Final depth BGS: 4.48 ft



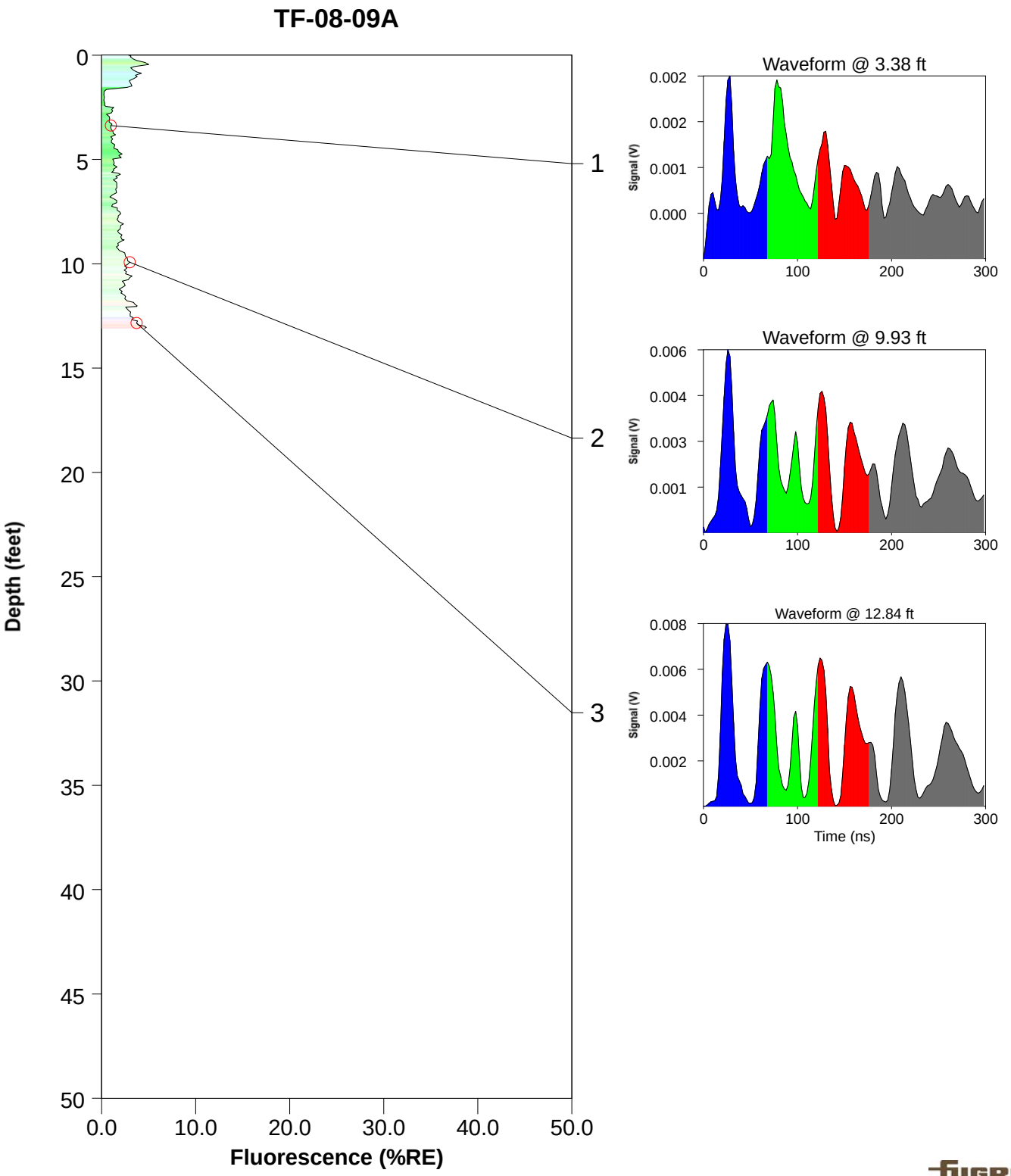
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 2:31:02 PM	Max fluorescence: 6.42% @ 12.29 ft
ROST Unit: 2	Final depth BGS: 13.05 ft



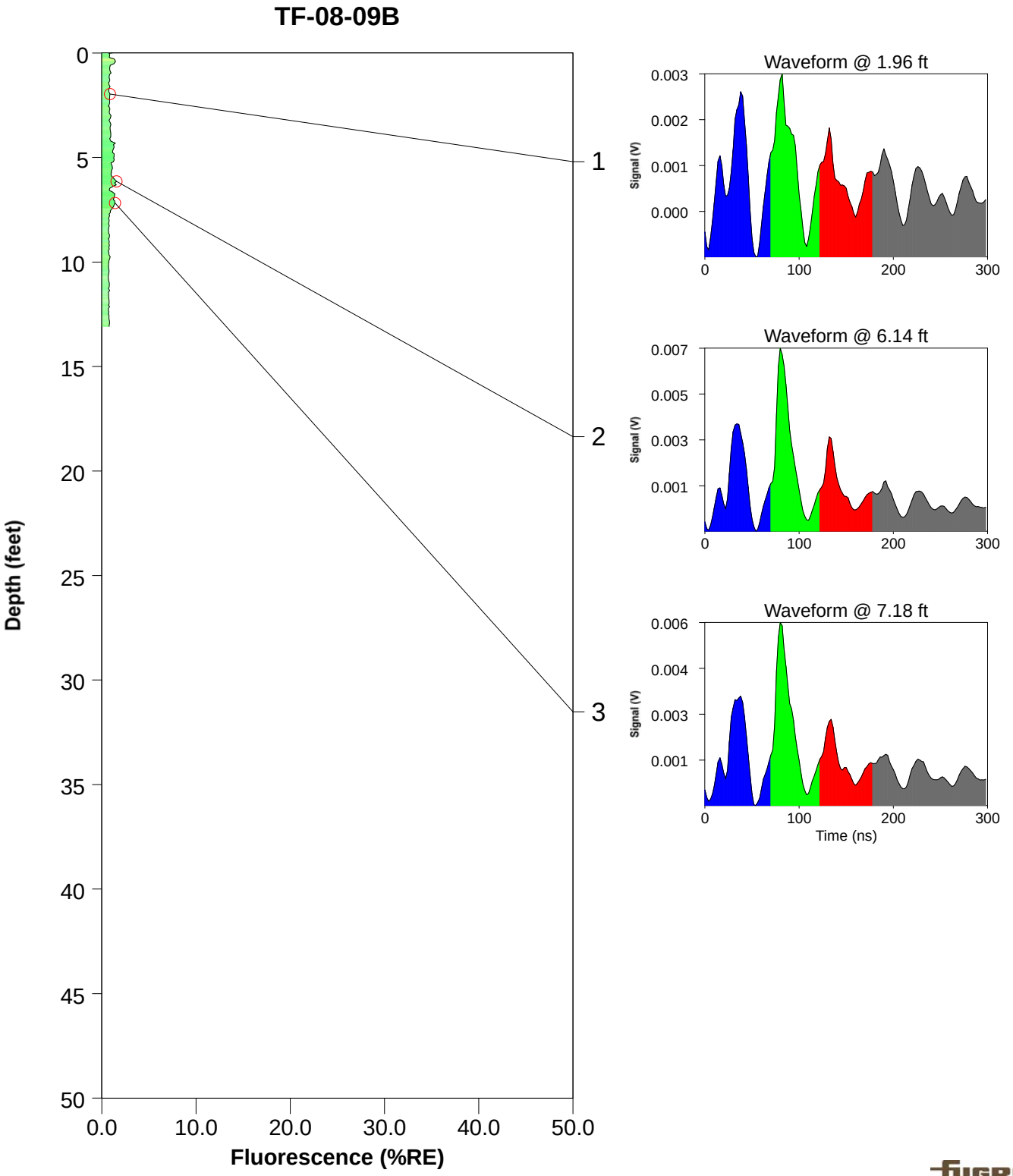
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 2:50:25 PM	Max fluorescence: 5.00% @ 0.45 ft
ROST Unit: 2	Final depth BGS: 13.09 ft



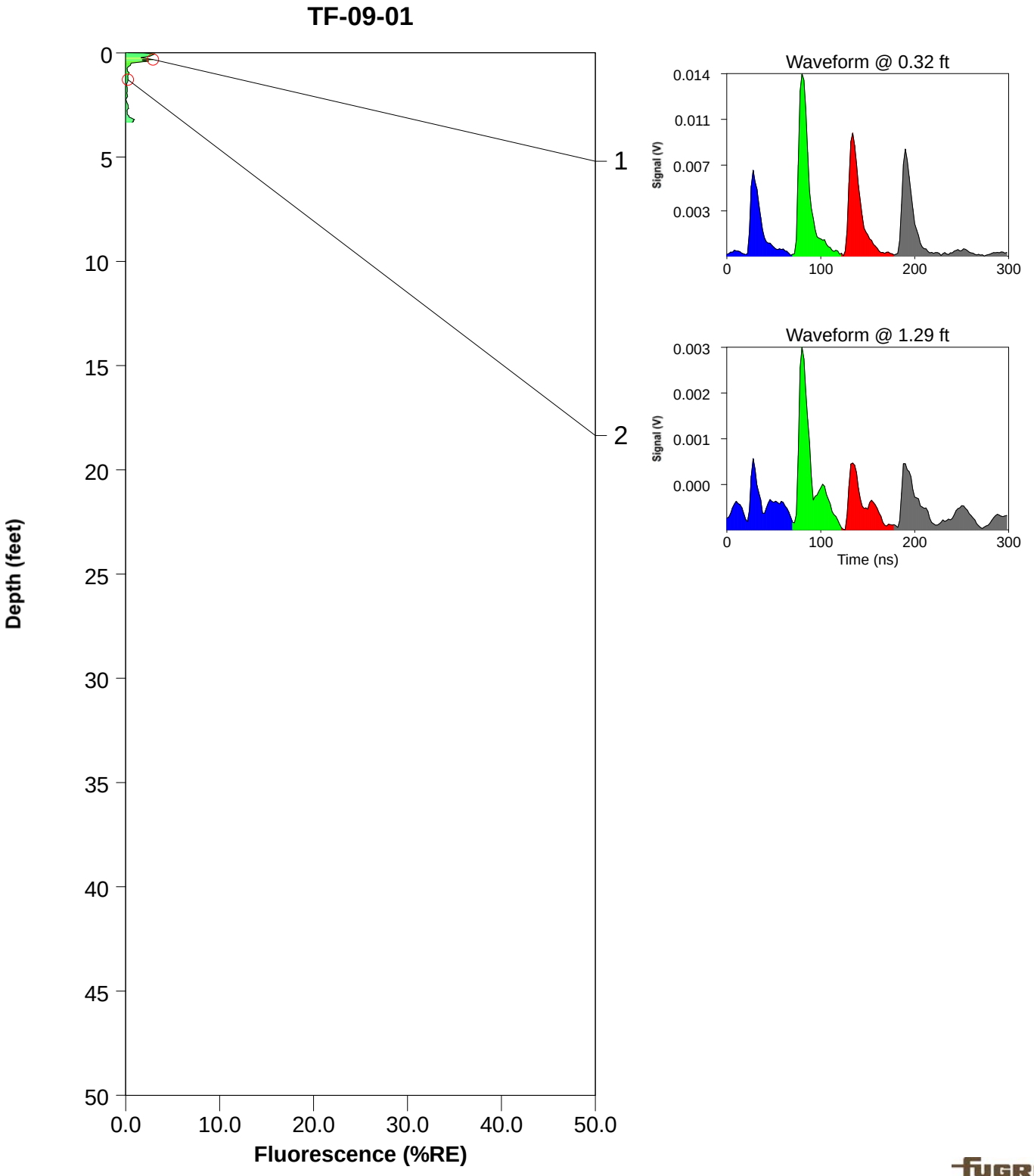
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/11/2015 @ 3:29:26 PM	Max fluorescence: 1.56% @ 6.14 ft
ROST Unit: 2	Final depth BGS: 13.08 ft



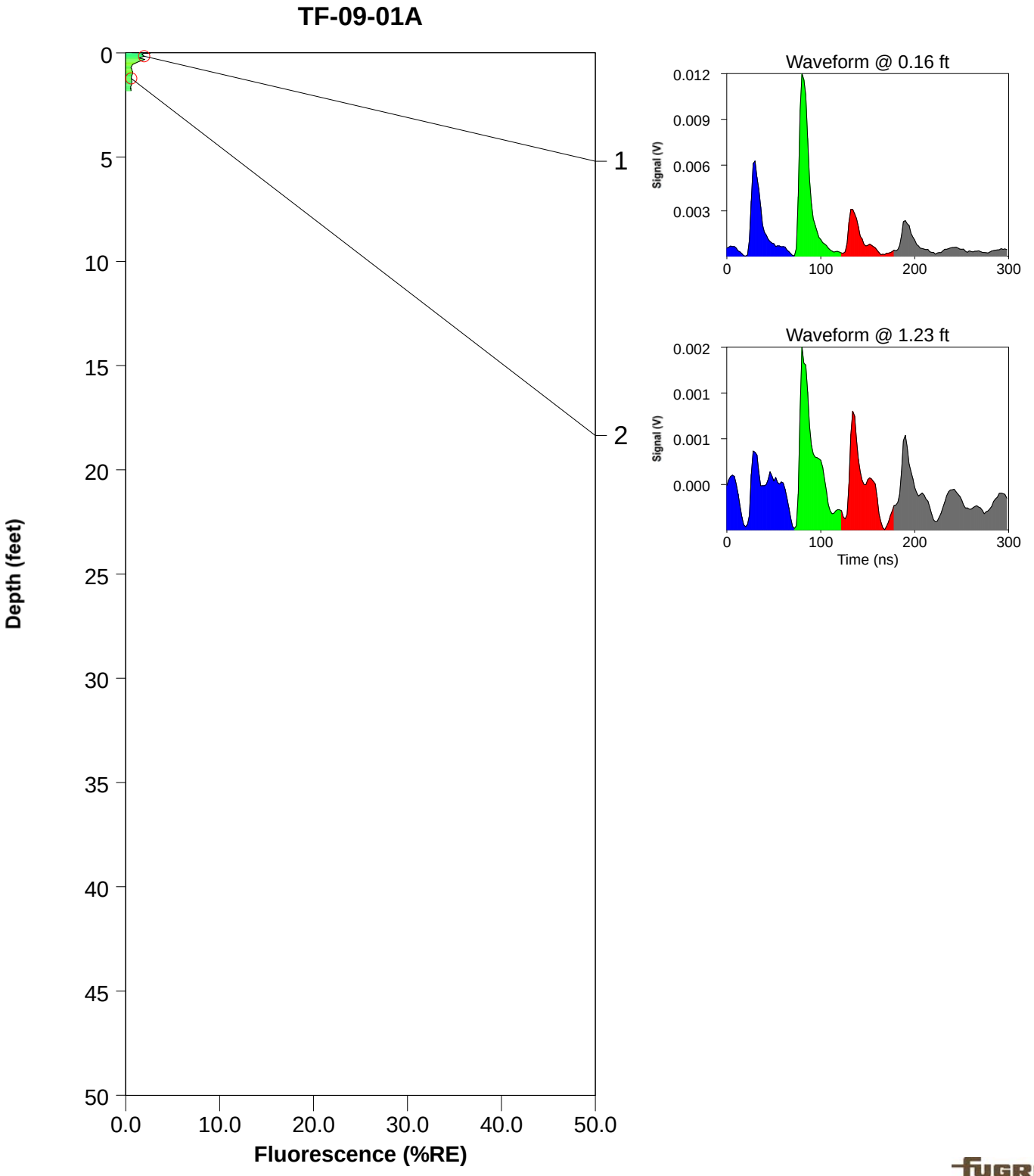
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:39:50 AM	Max fluorescence: 3.12% @ 0.05 ft
ROST Unit: 2	Final depth BGS: 3.34 ft



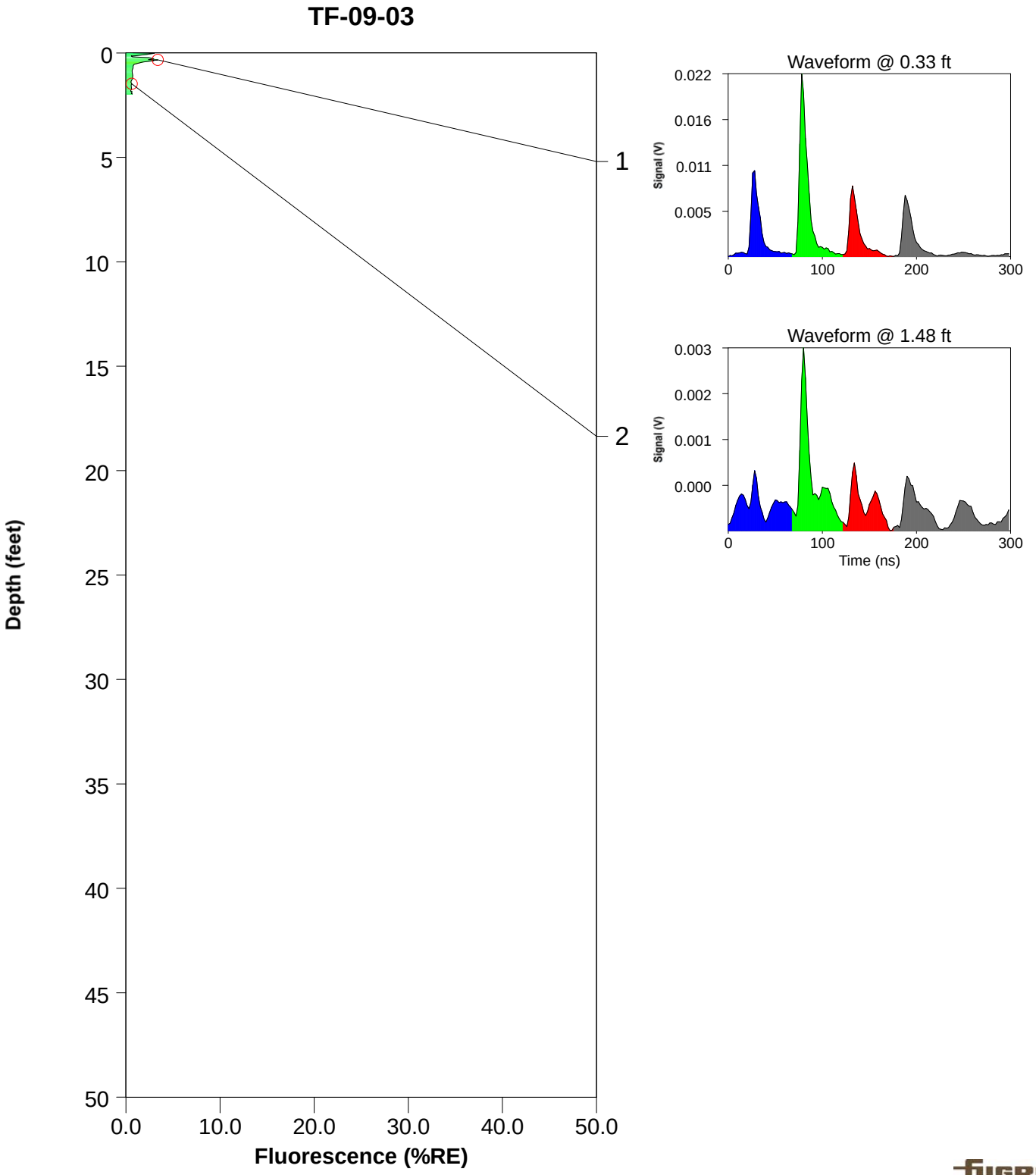
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:46:23 AM	Max fluorescence: 2.61% @ 0.01 ft
ROST Unit: 2	Final depth BGS: 1.82 ft



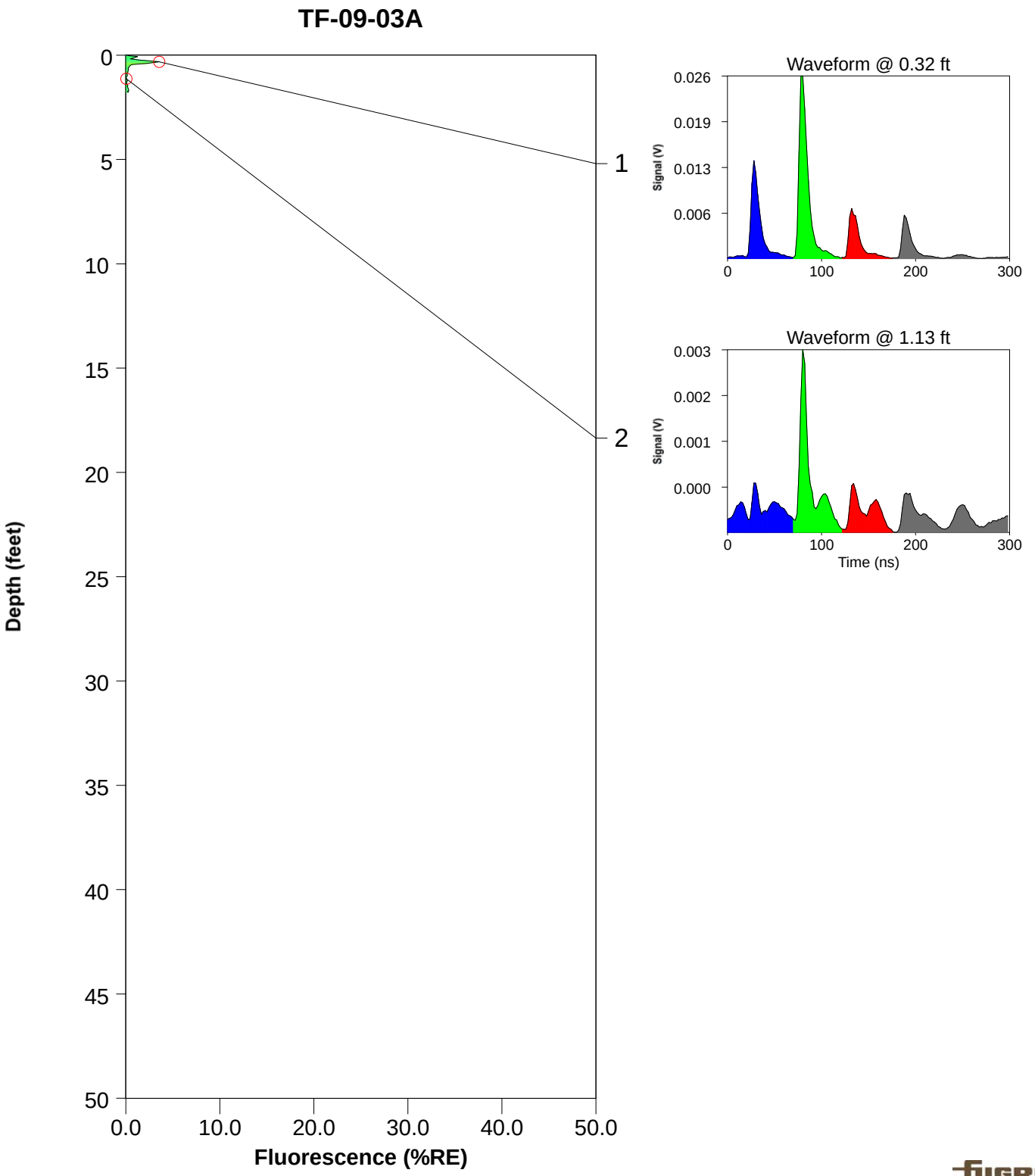
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:25:42 AM	Max fluorescence: 3.38% @ 0.33 ft
ROST Unit: 2	Final depth BGS: 1.97 ft



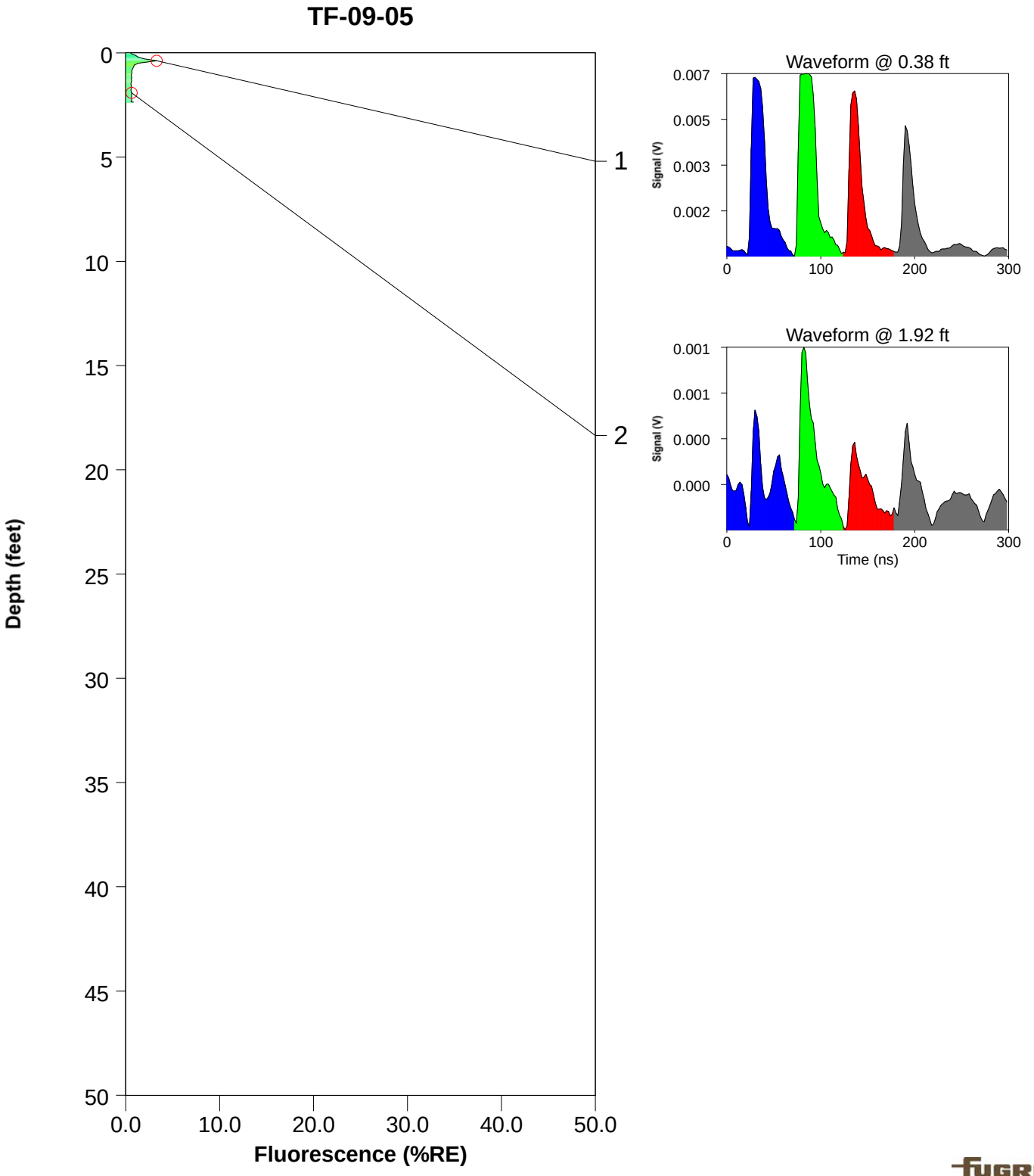
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:32:30 AM	Max fluorescence: 3.55% @ 0.32 ft
ROST Unit: 2	Final depth BGS: 1.78 ft



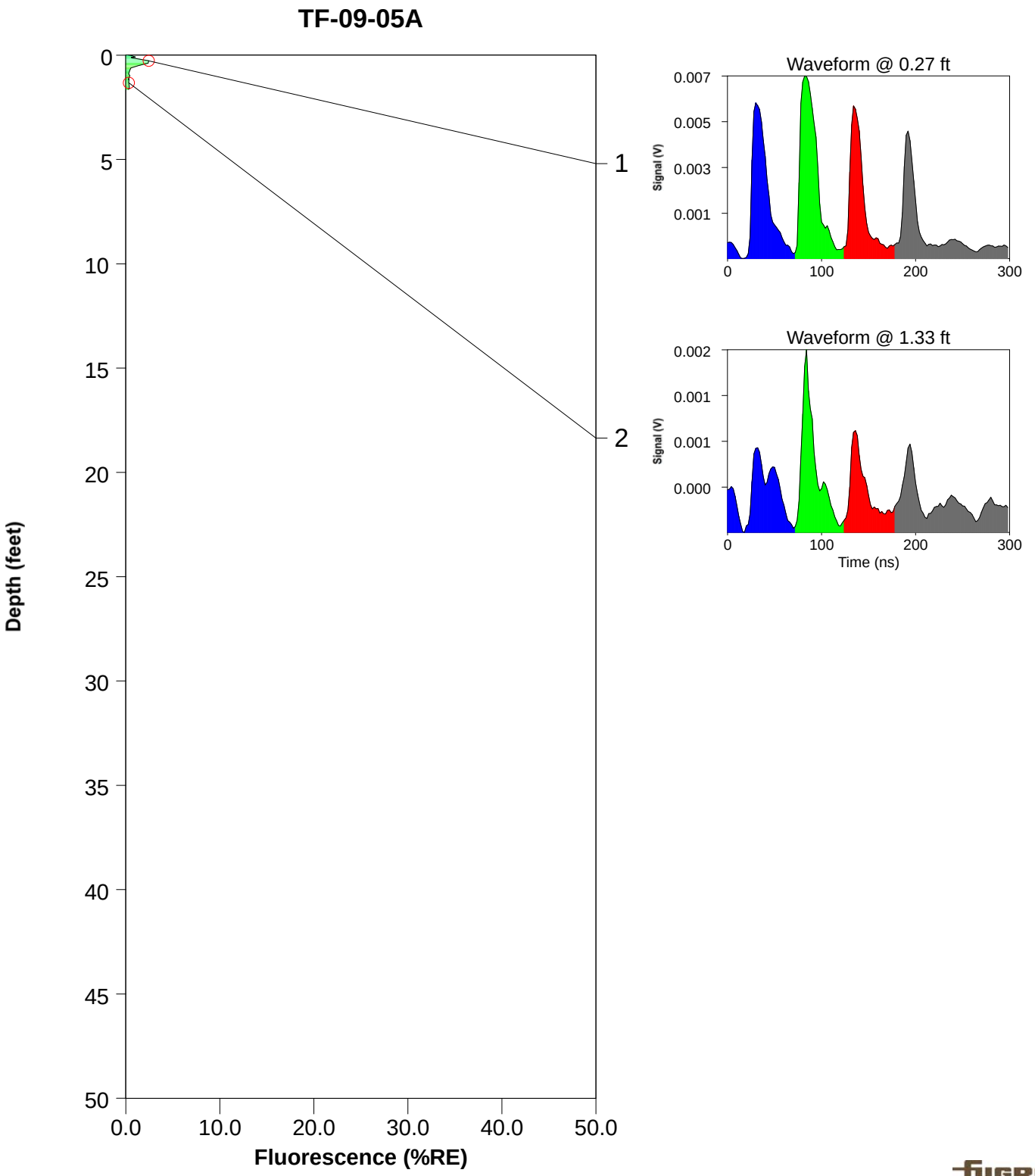
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:16:16 AM	Max fluorescence: 3.29% @ 0.38 ft
ROST Unit: 2	Final depth BGS: 2.36 ft



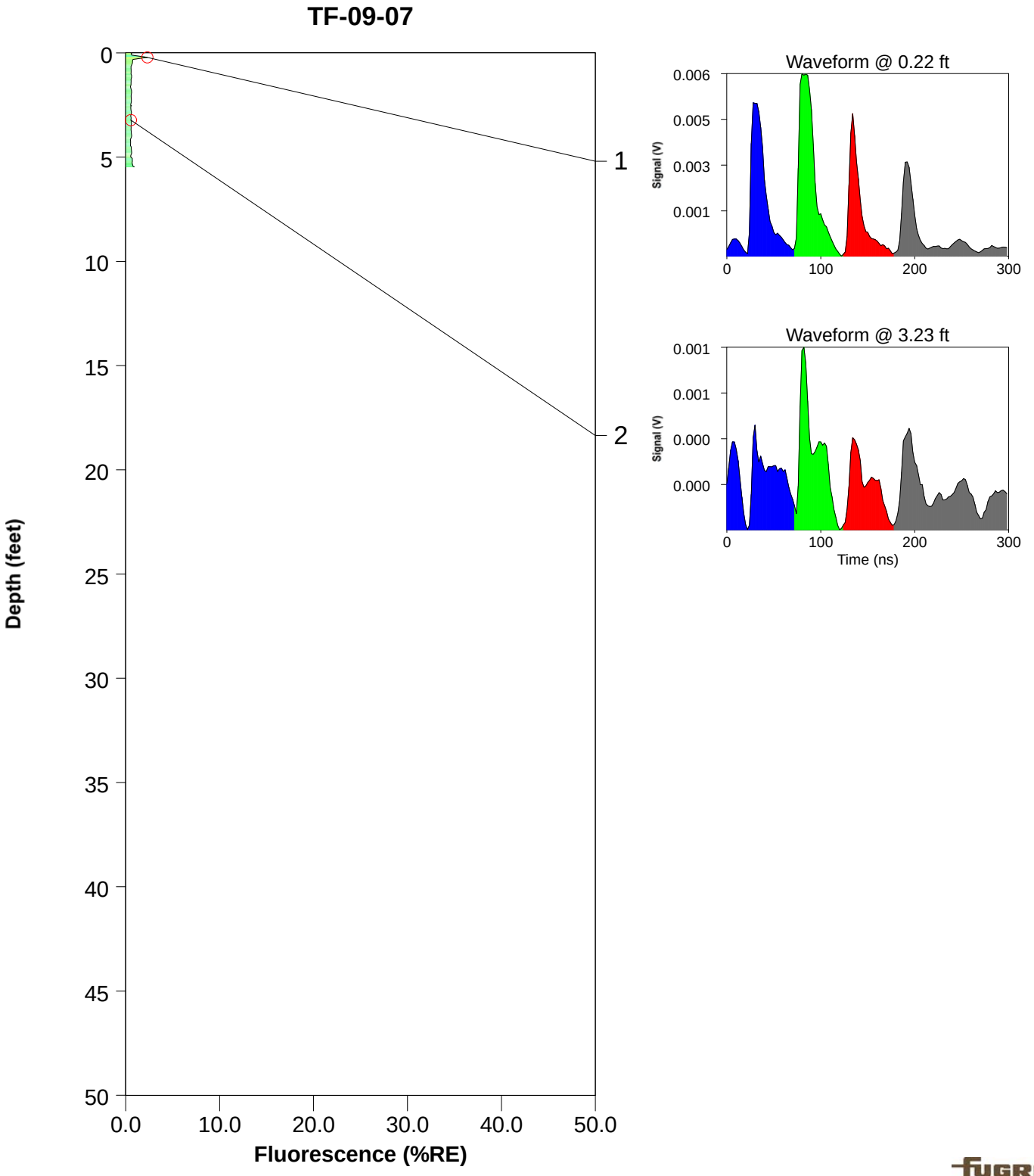
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:27:36 AM	Max fluorescence: 2.43% @ 0.27 ft
ROST Unit: 2	Final depth BGS: 1.64 ft



ROST Fluorescence Response Data

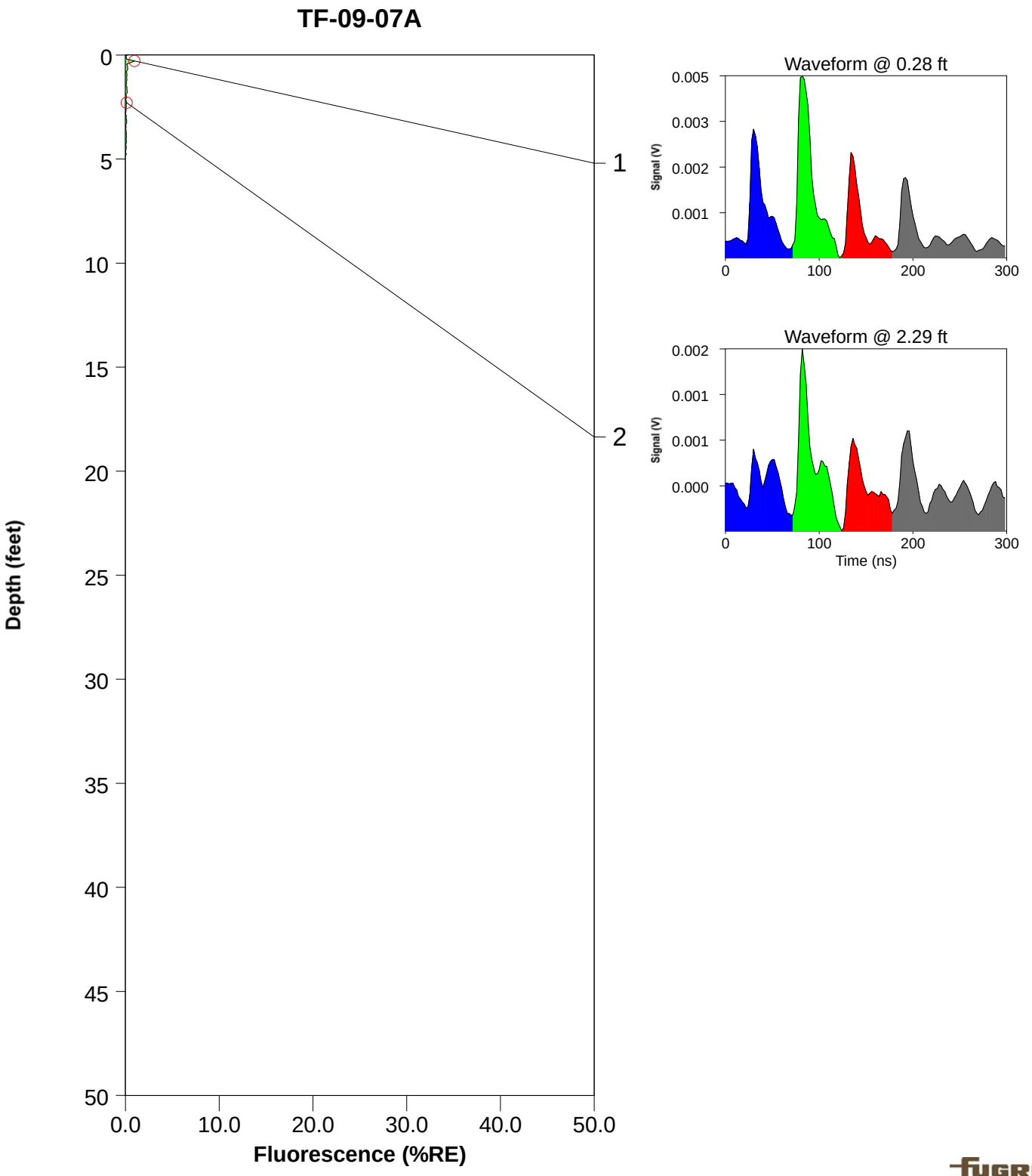
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 8:57:22 AM	Max fluorescence: 2.30% @ 0.22 ft
ROST Unit: 2	Final depth BGS: 5.47 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

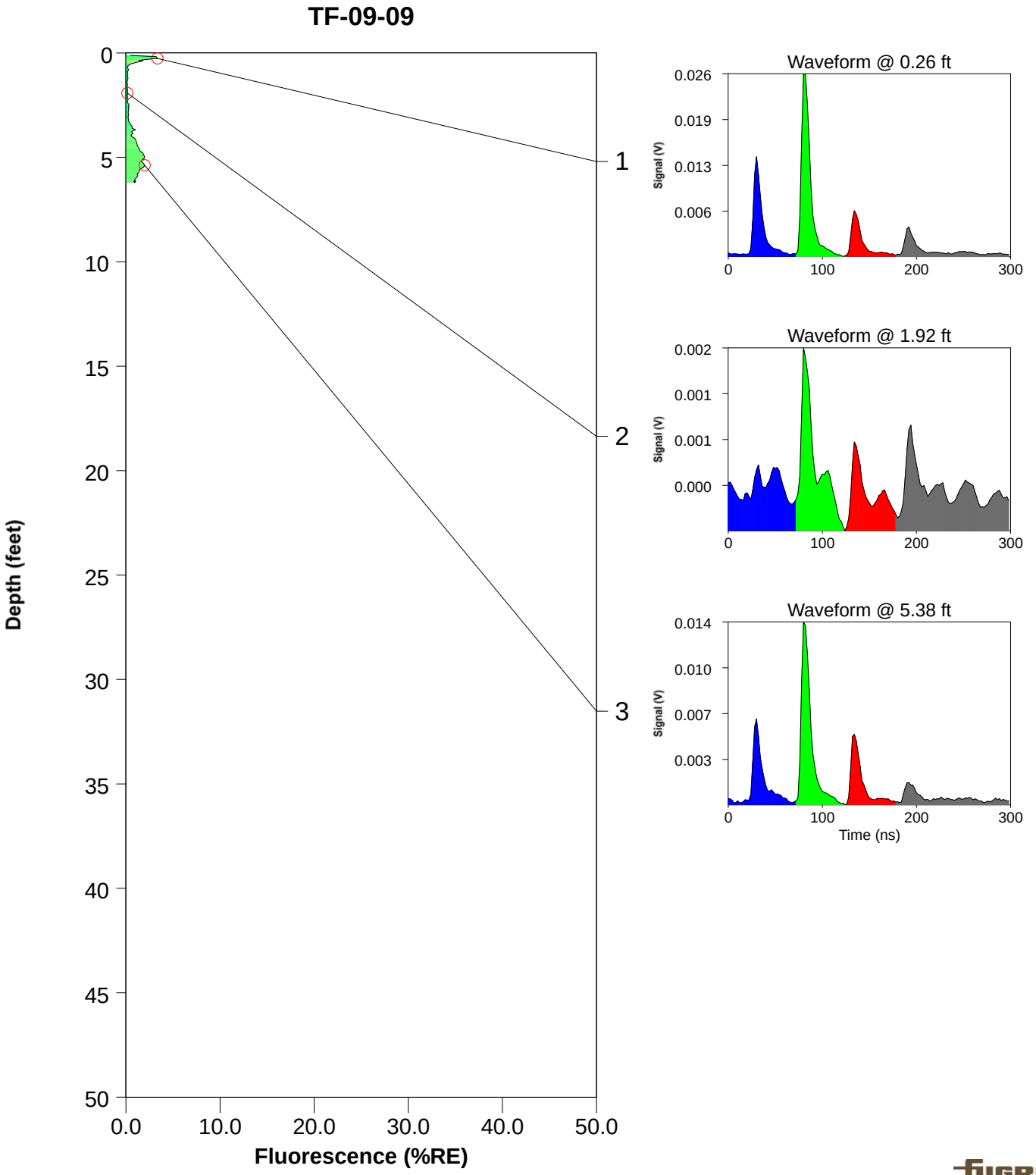
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:05:35 AM	Max fluorescence: 0.95% @ 0.28 ft
ROST Unit: 2	Final depth BGS: 4.85 ft



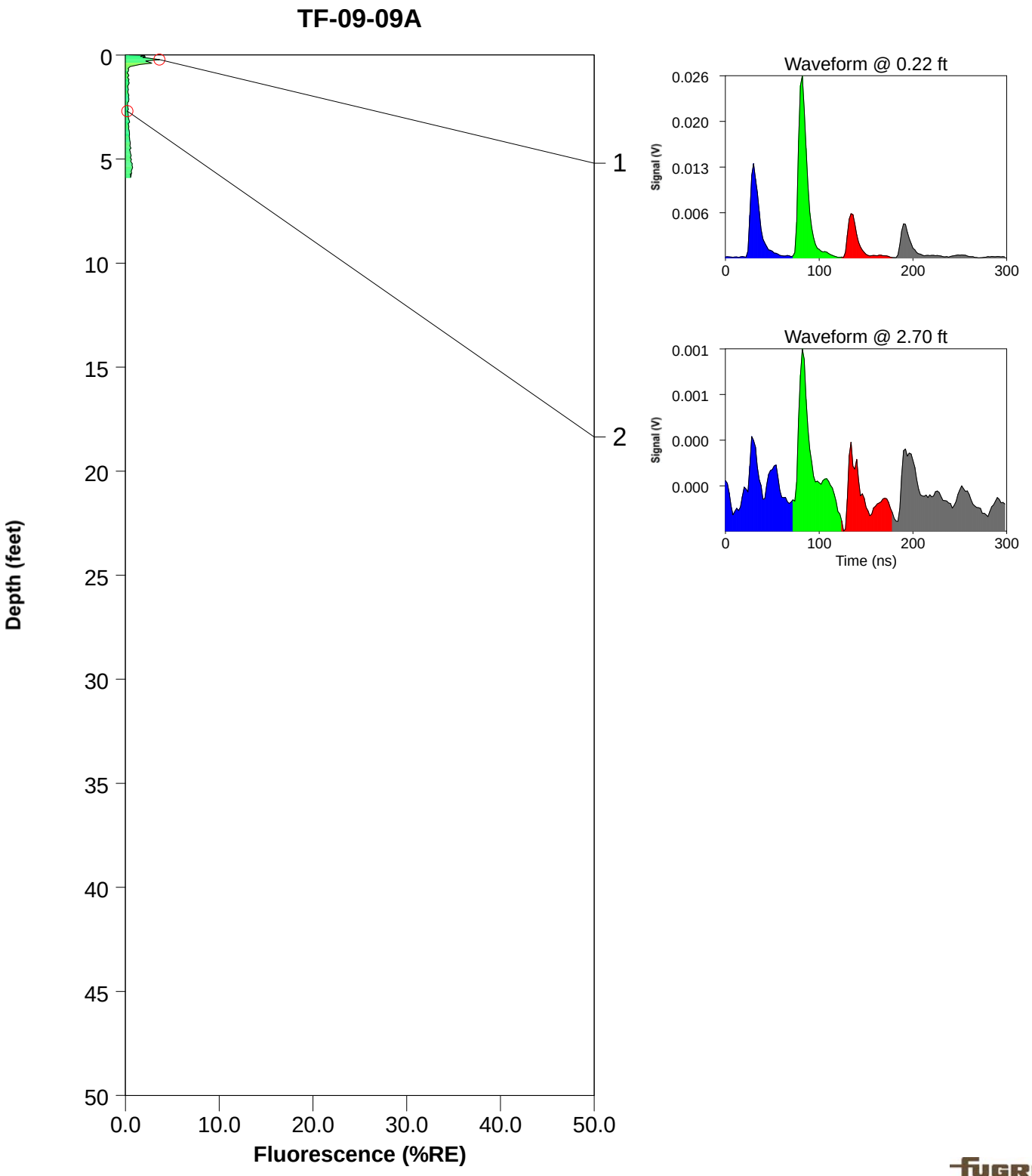
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:40:33 AM	Max fluorescence: 3.34% @ 0.26 ft
ROST Unit: 2	Final depth BGS: 6.21 ft



ROST Fluorescence Response Data

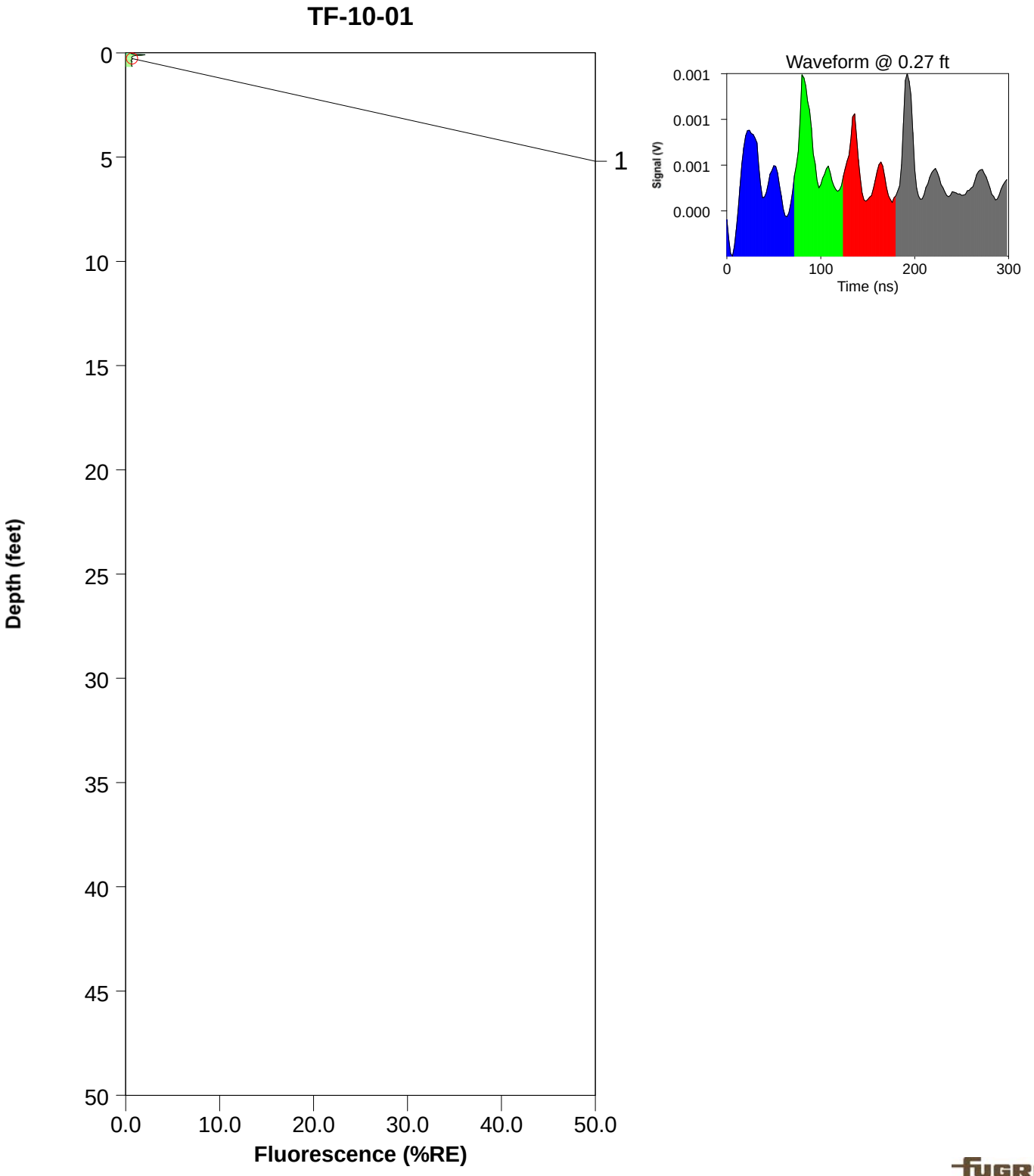
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/10/2015 @ 9:50:31 AM	Max fluorescence: 3.62% @ 0.22 ft
ROST Unit: 2	Final depth BGS: 5.88 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

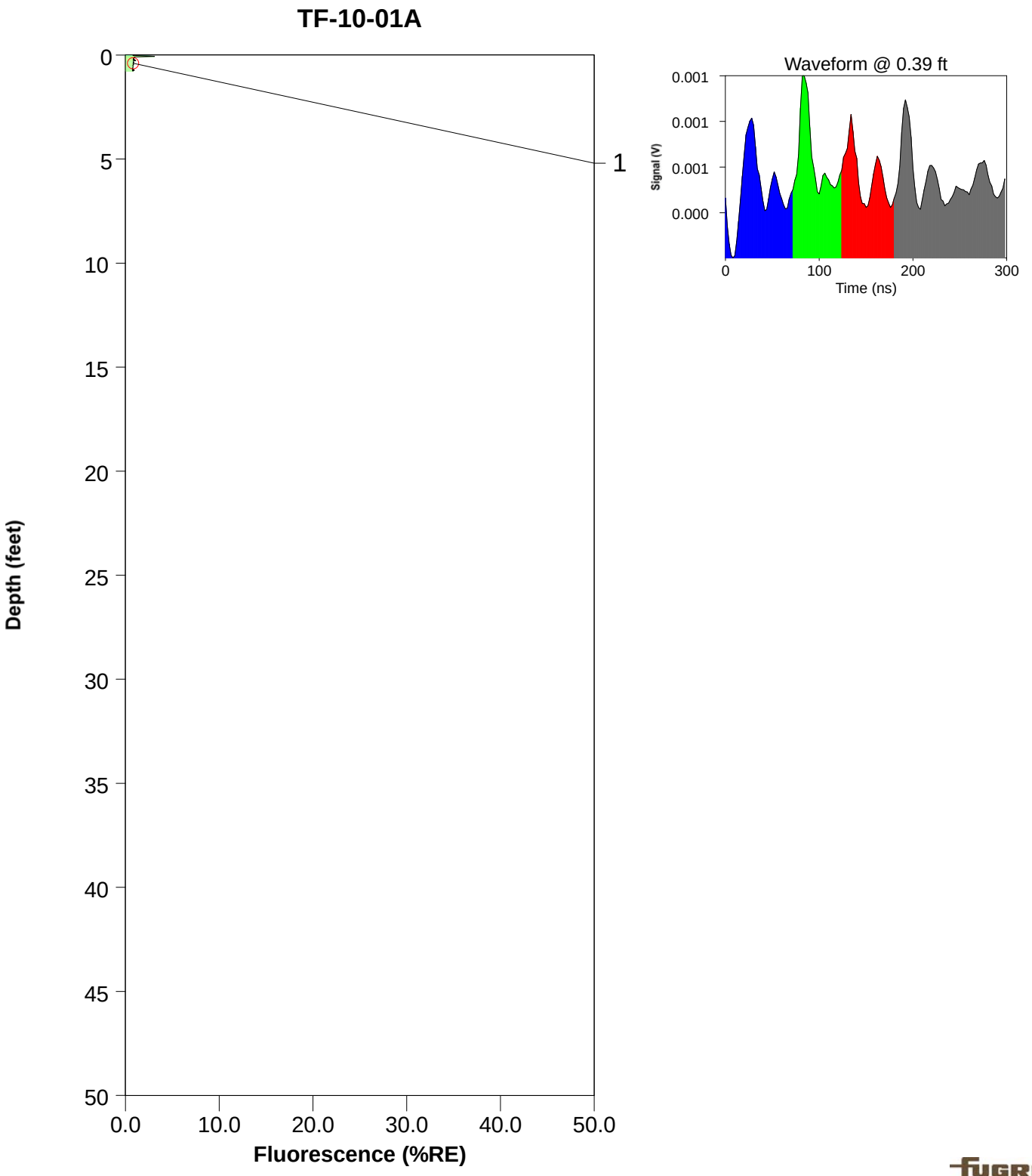
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:37:33 PM	Max fluorescence: 2.06% @ 0.09 ft
ROST Unit: ?	Final depth BGS: 0.65 ft



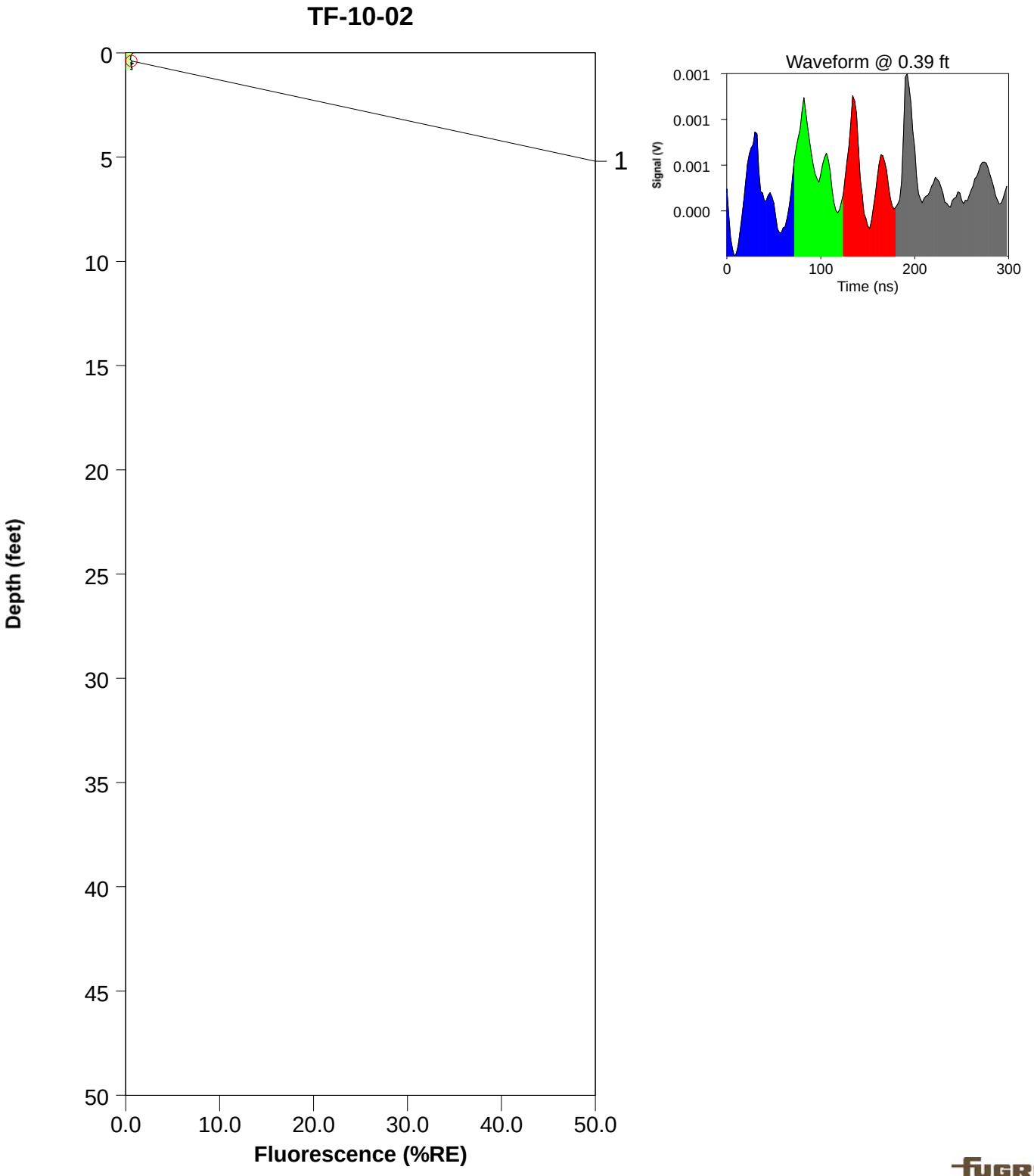
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:44:47 PM	Max fluorescence: 3.09% @ 0.07 ft
ROST Unit: ?	Final depth BGS: 0.76 ft



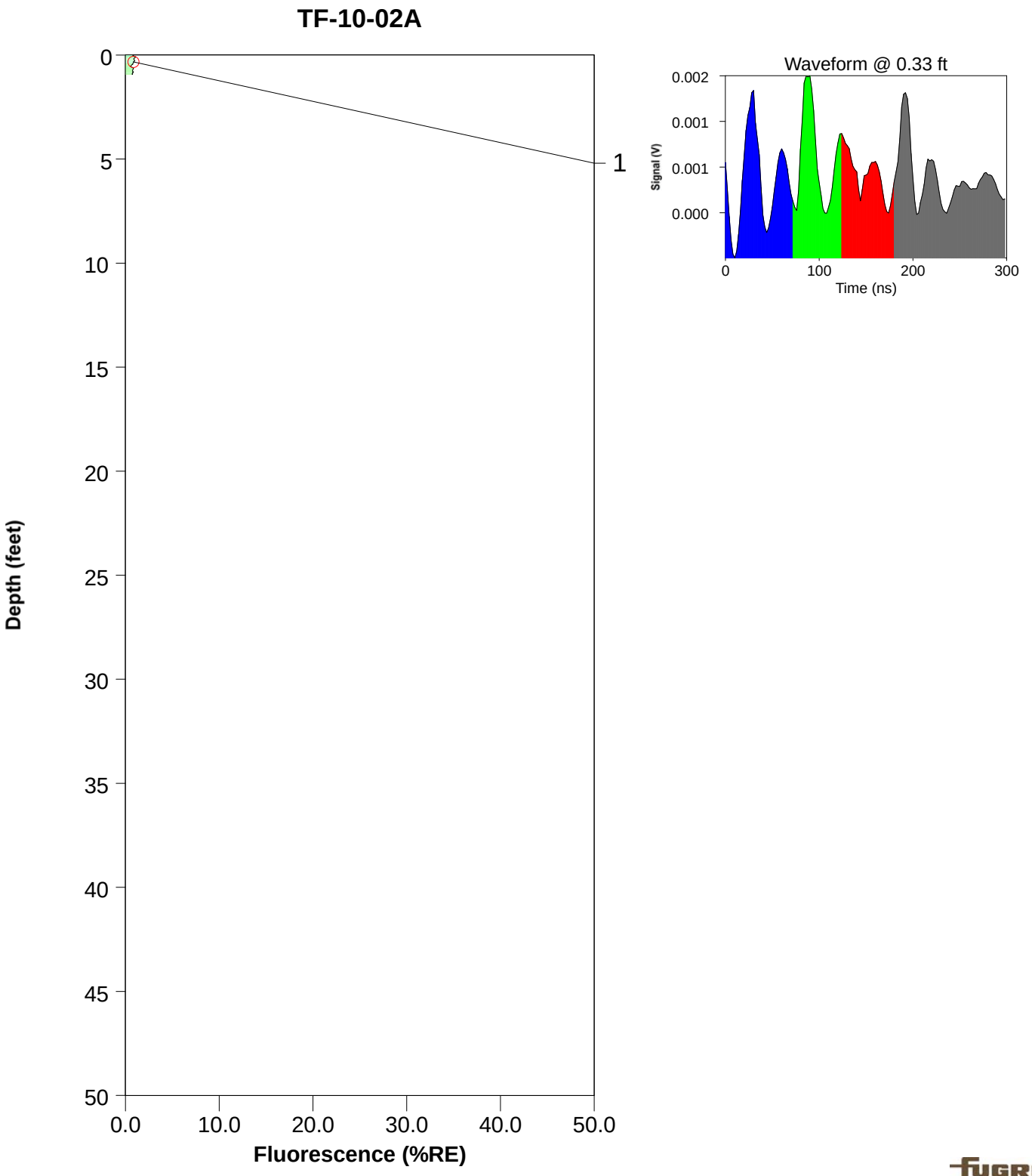
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:21:43 PM	Max fluorescence: 0.85% @ 0.50 ft
ROST Unit: ?	Final depth BGS: 0.80 ft



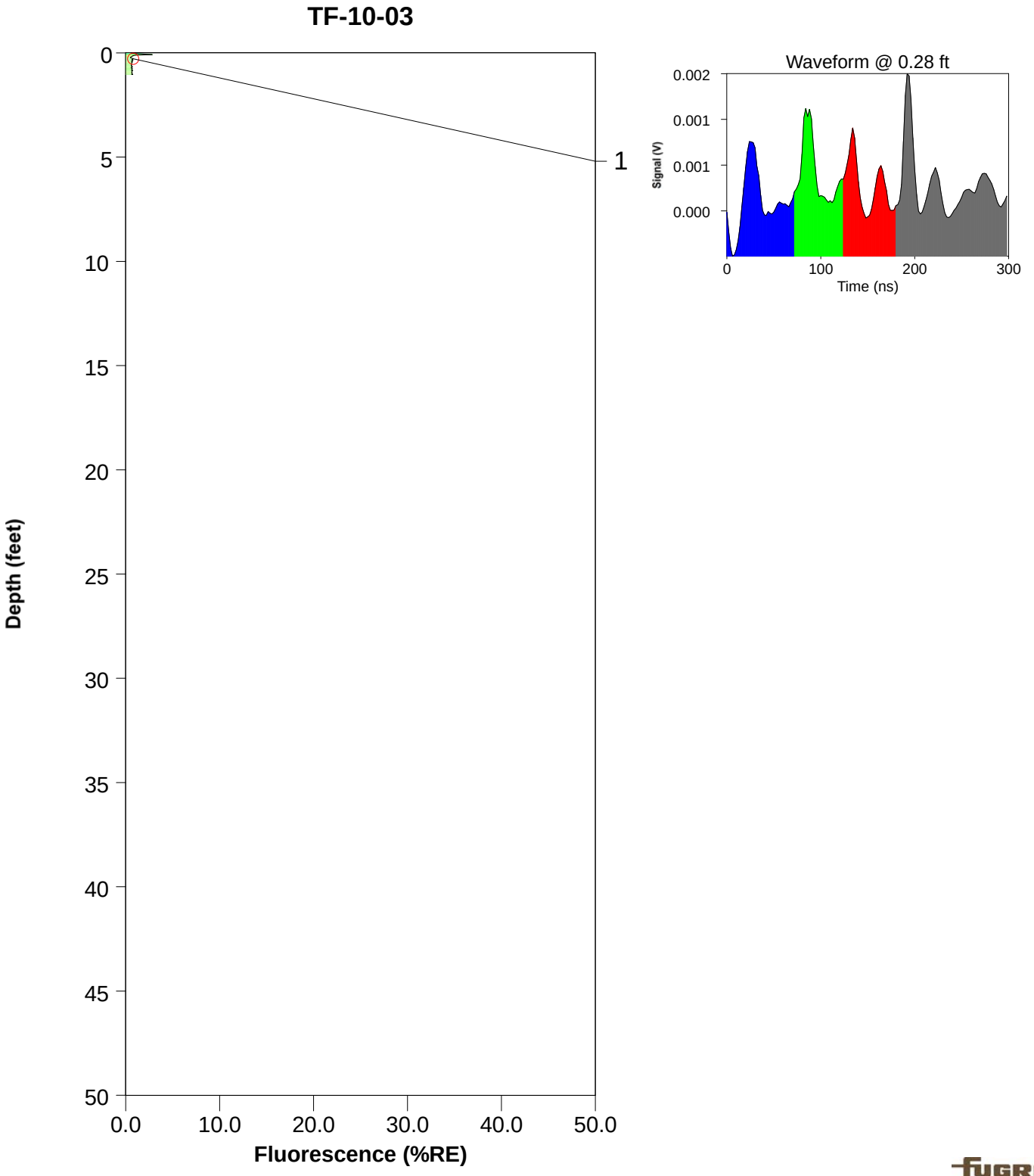
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:28:46 PM	Max fluorescence: 1.12% @ 0.09 ft
ROST Unit: ?	Final depth BGS: 0.93 ft



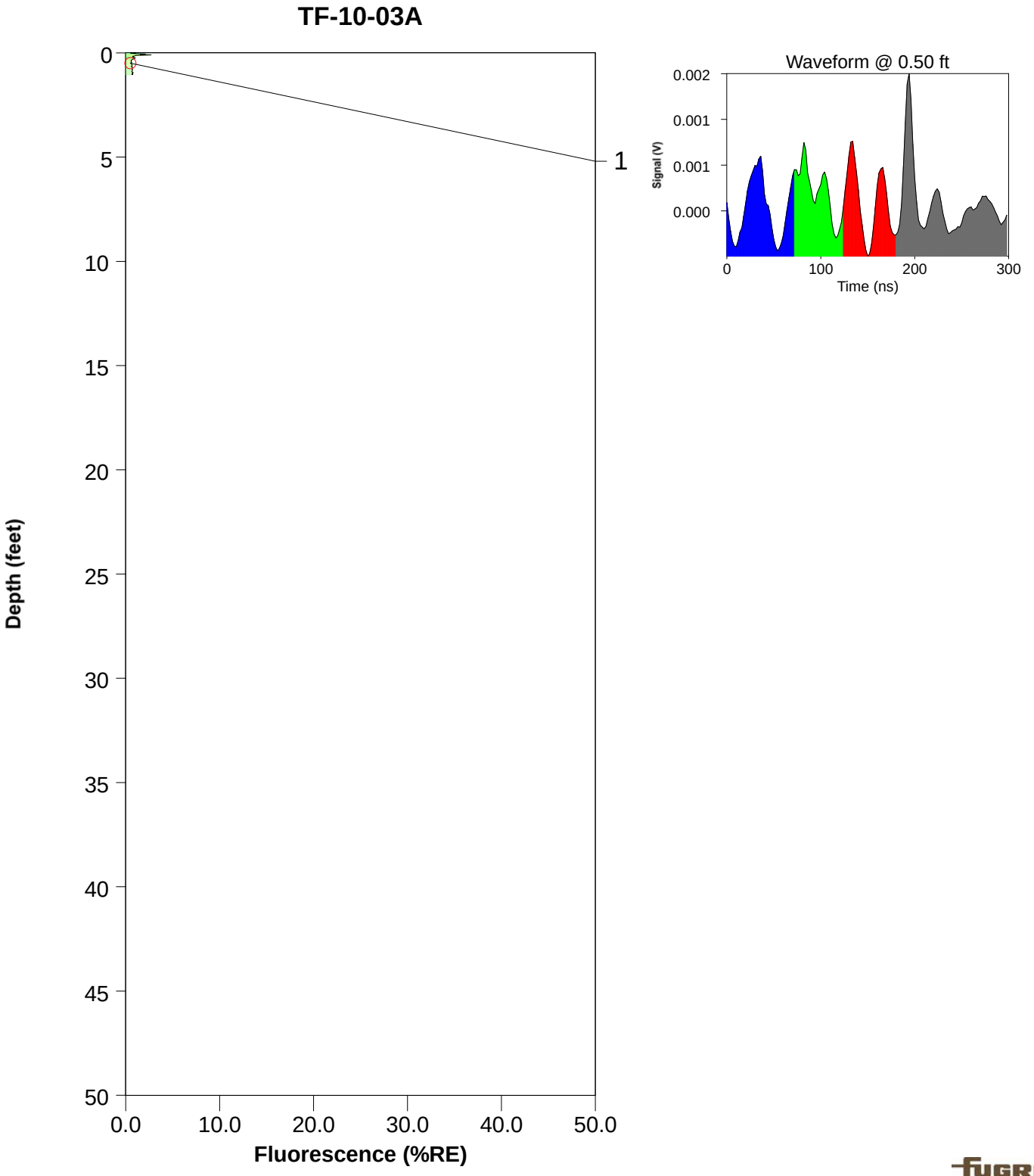
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:02:24 PM	Max fluorescence: 2.82% @ 0.09 ft
ROST Unit: ?	Final depth BGS: 1.04 ft



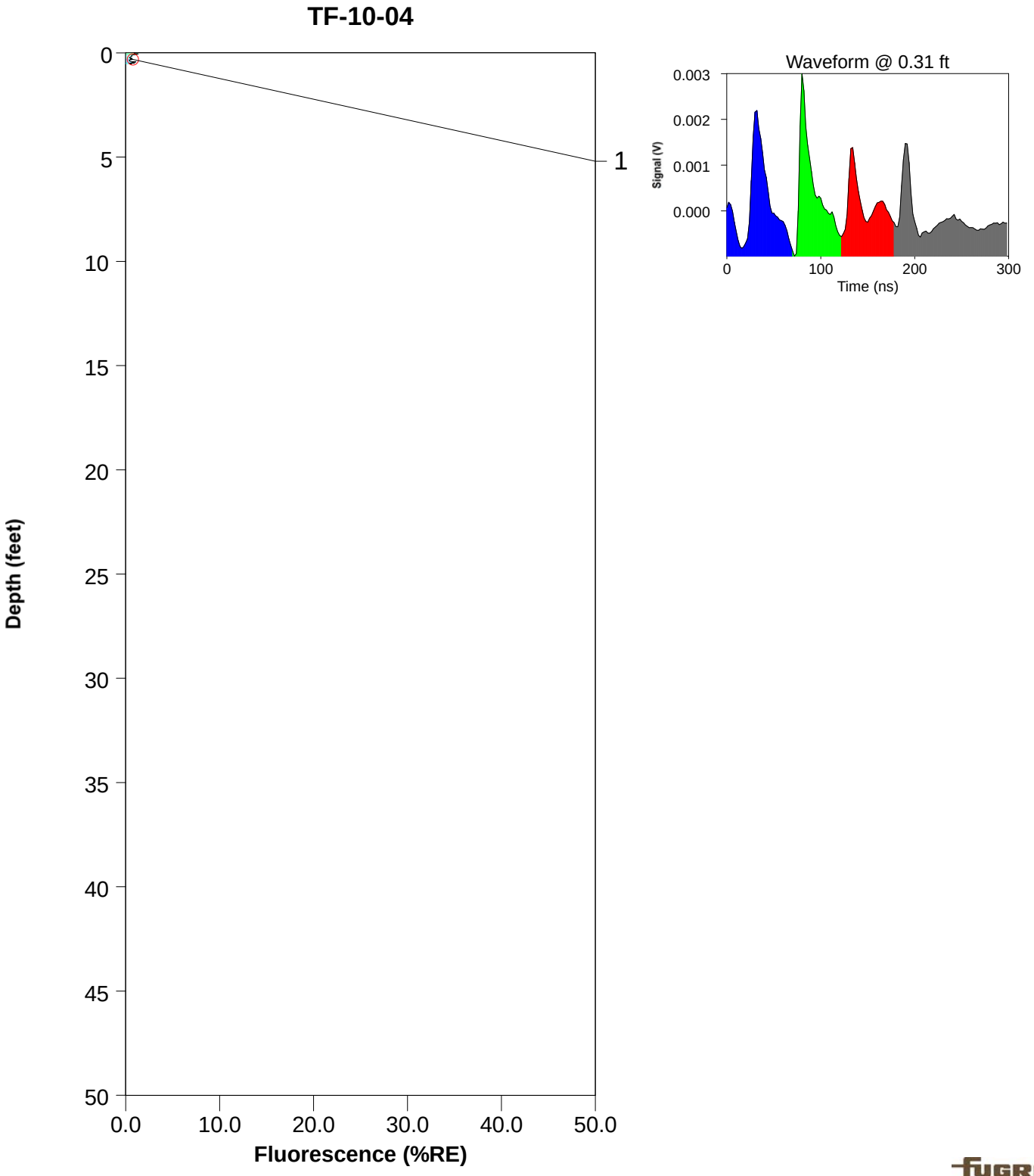
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 4:09:01 PM	Max fluorescence: 2.71% @ 0.10 ft
ROST Unit: ?	Final depth BGS: 1.05 ft



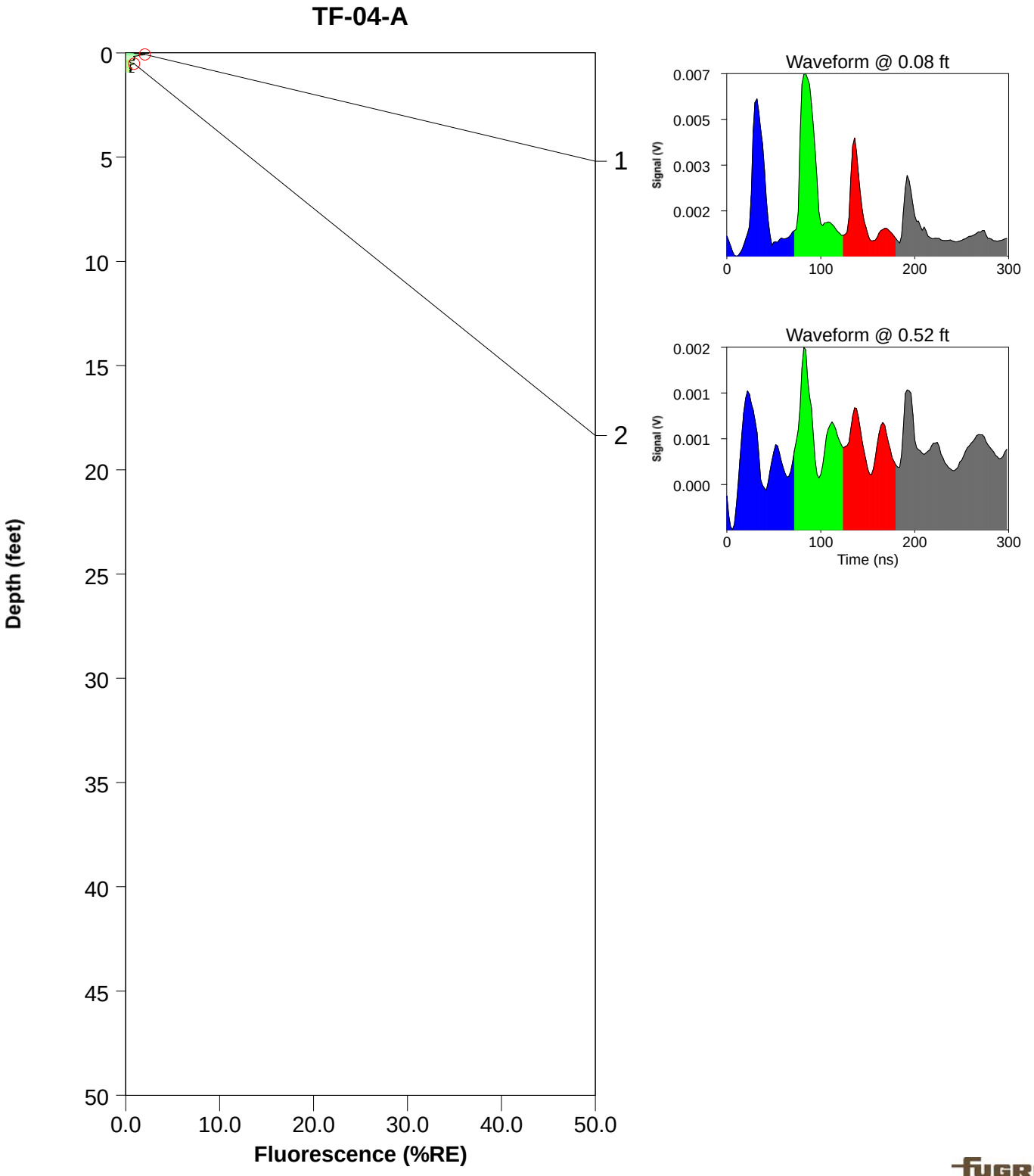
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 11:34:47 AM	Max fluorescence: 1.32% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 0.52 ft



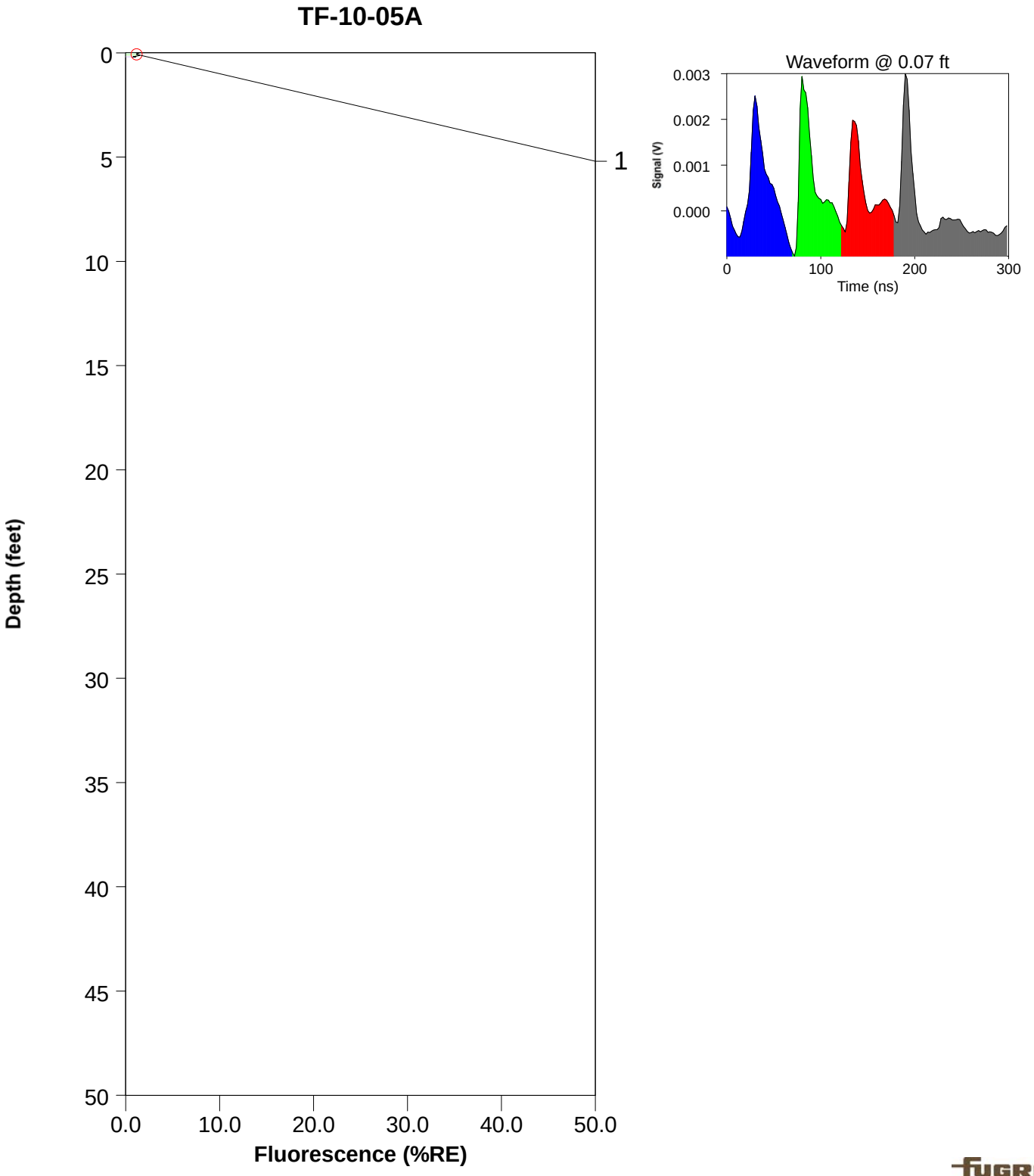
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 3:50:05 PM	Max fluorescence: 2.47% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 0.93 ft



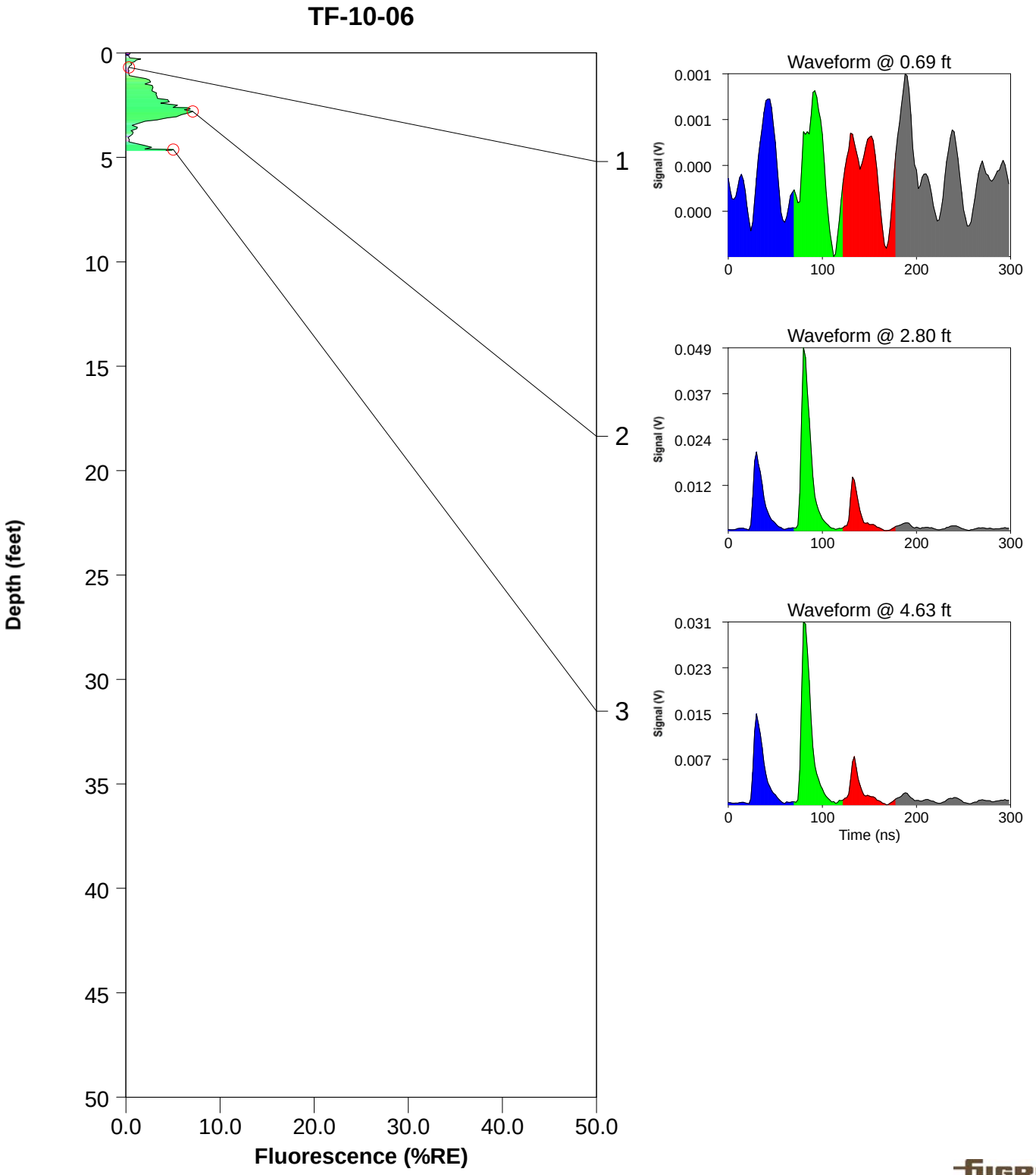
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 11:20:42 AM	Max fluorescence: 1.50% @ 0.13 ft
ROST Unit: ?	Final depth BGS: 0.20 ft



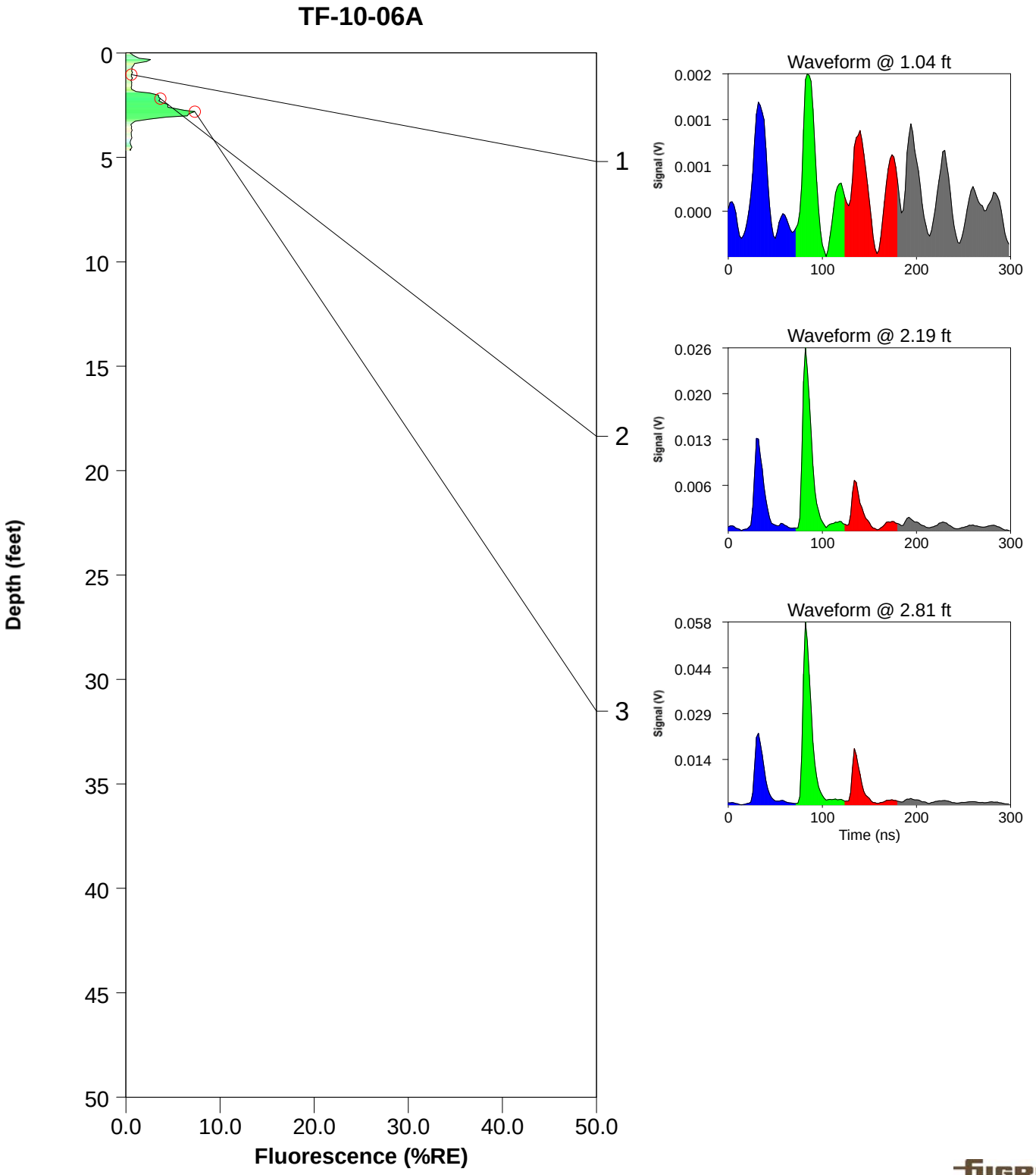
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 9:16:36 AM	Max fluorescence: 7.10% @ 2.80 ft
ROST Unit: 2	Final depth BGS: 4.67 ft



ROST Fluorescence Response Data

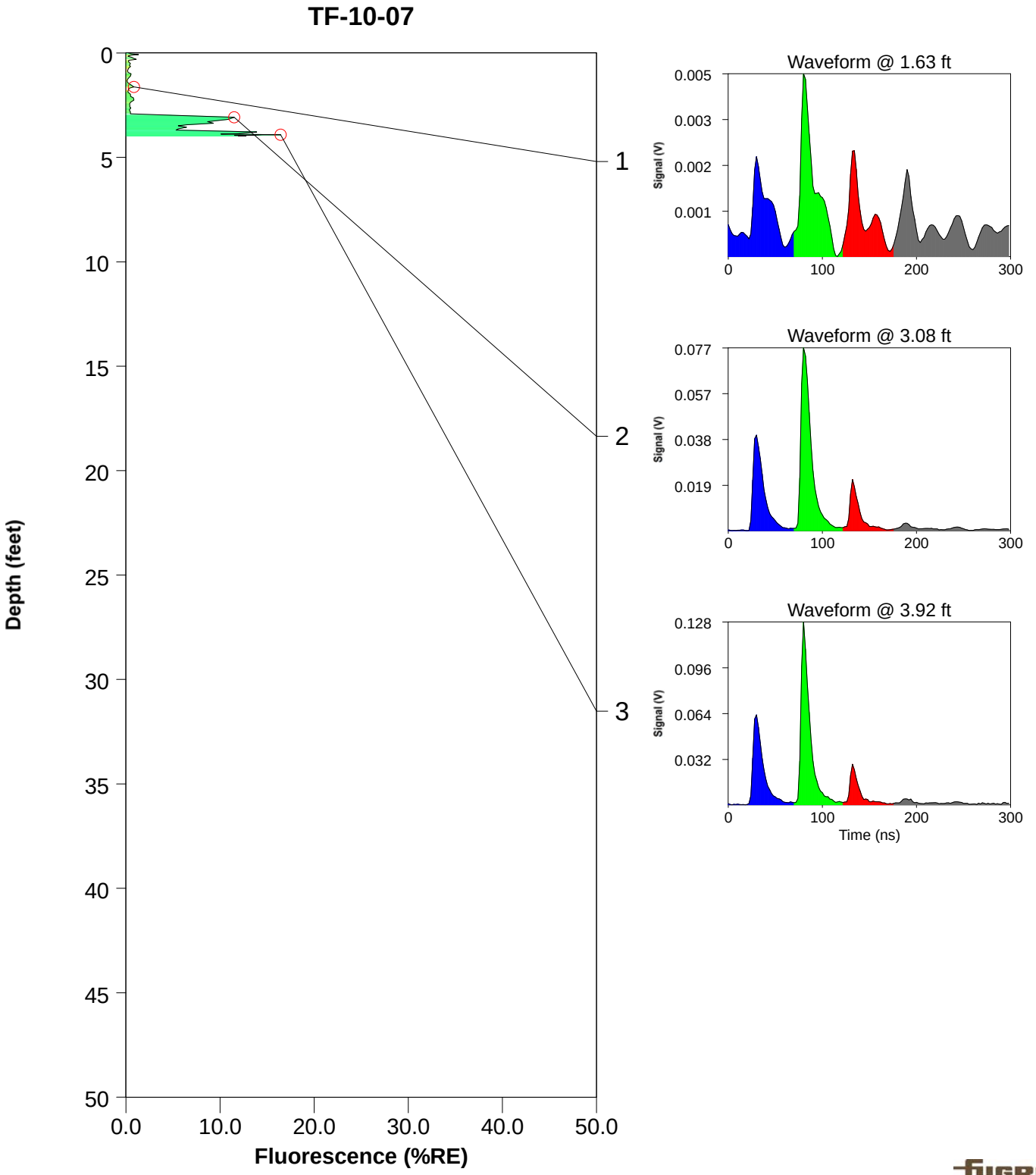
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 9:25:45 AM	Max fluorescence: 7.31% @ 2.81 ft
ROST Unit: 2	Final depth BGS: 4.68 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

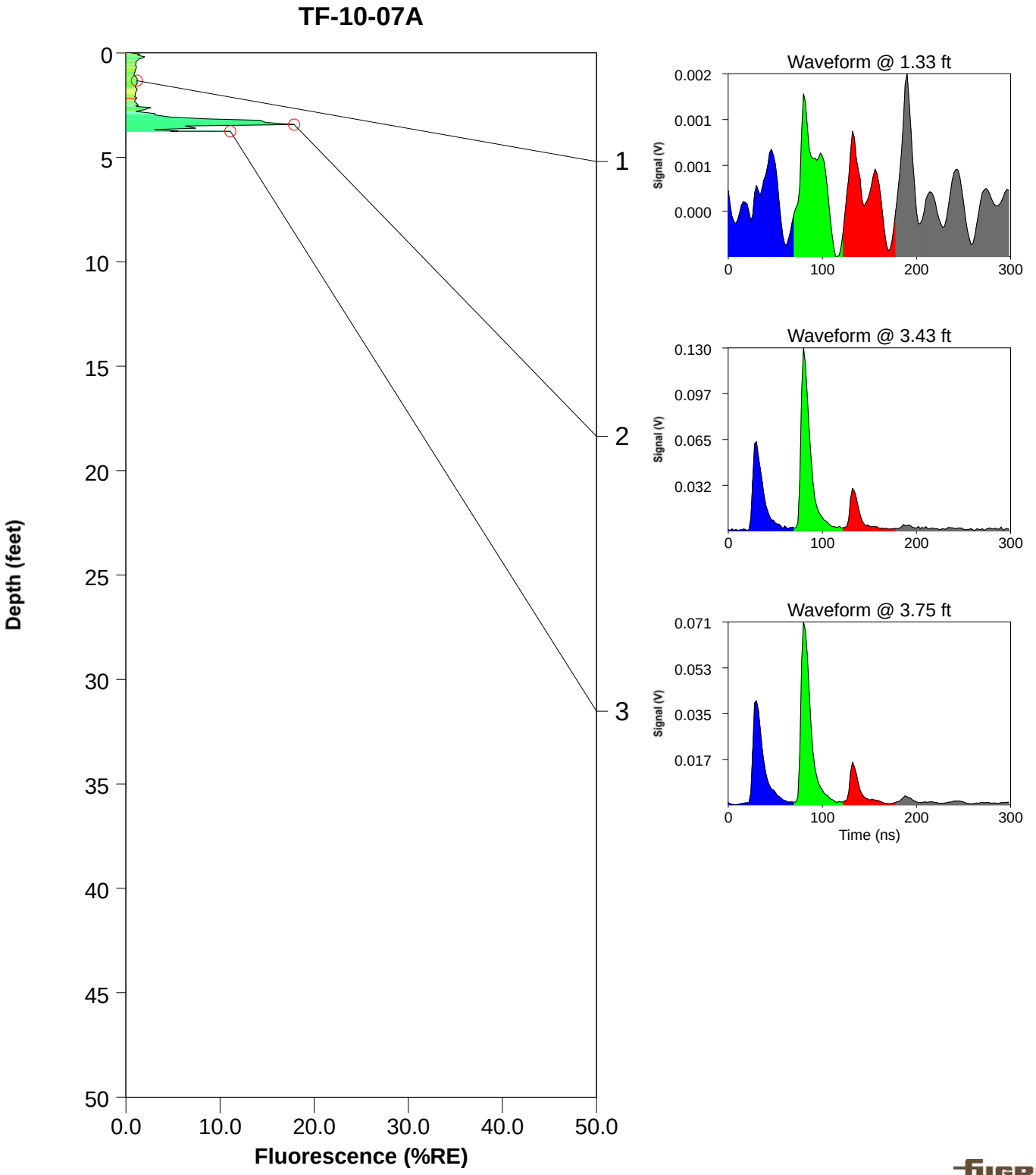
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 8:58:42 AM	Max fluorescence: 16.43% @ 3.92 ft
ROST Unit: 2	Final depth BGS: 3.98 ft



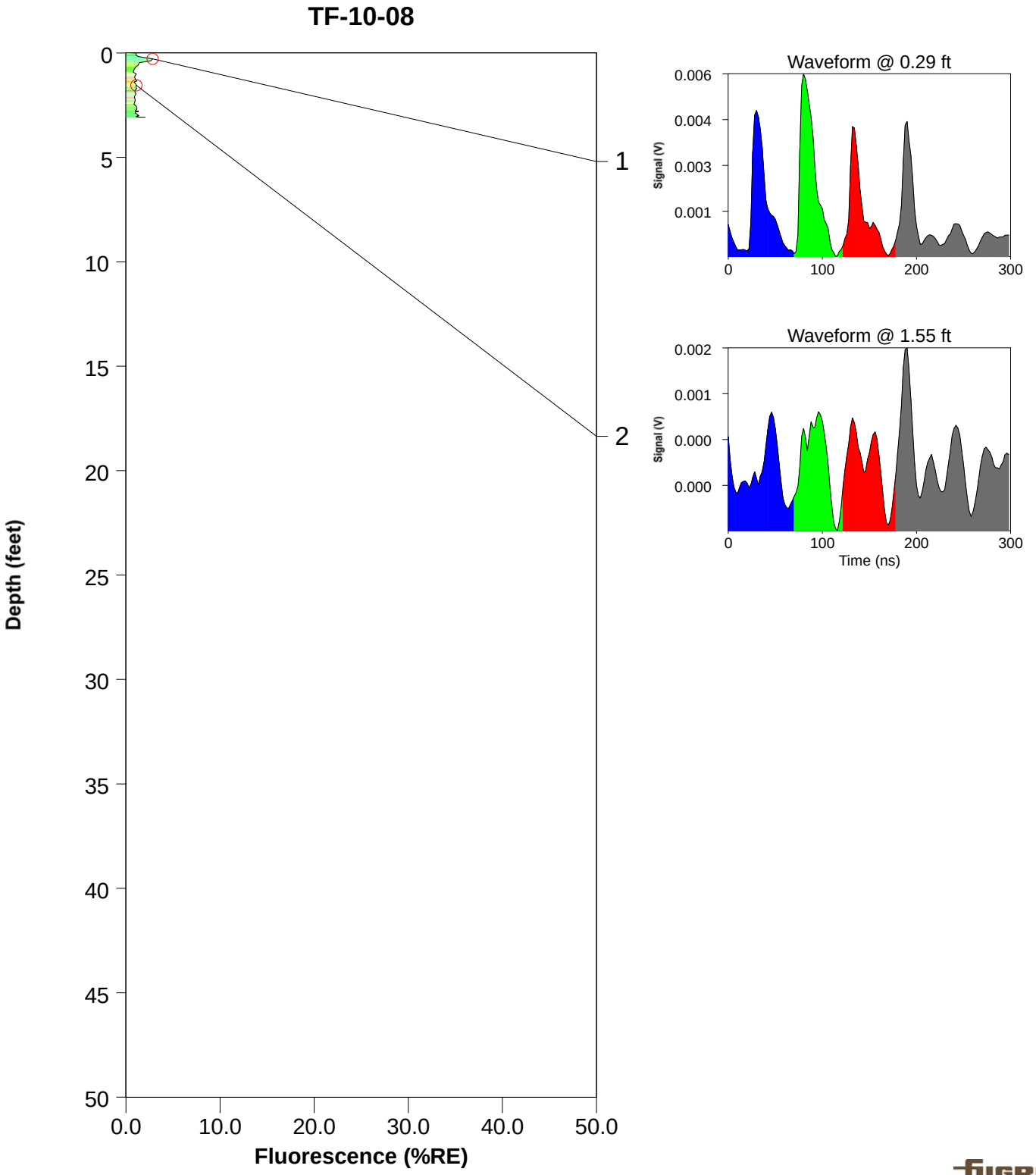
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 9:05:40 AM	Max fluorescence: 17.87% @ 3.43 ft
ROST Unit: 2	Final depth BGS: 3.75 ft



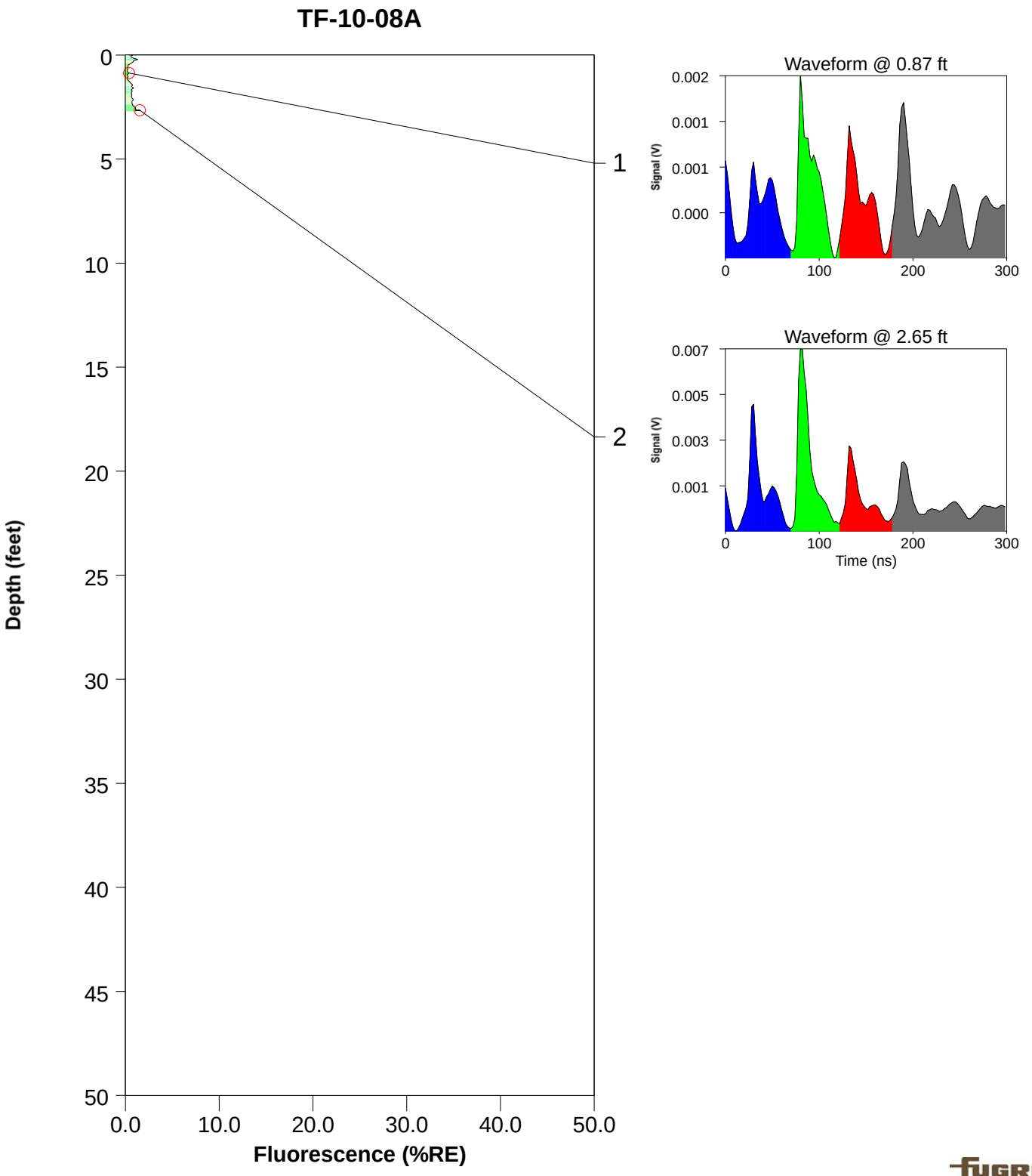
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 8:34:10 AM	Max fluorescence: 2.83% @ 0.29 ft
ROST Unit: 2	Final depth BGS: 3.08 ft



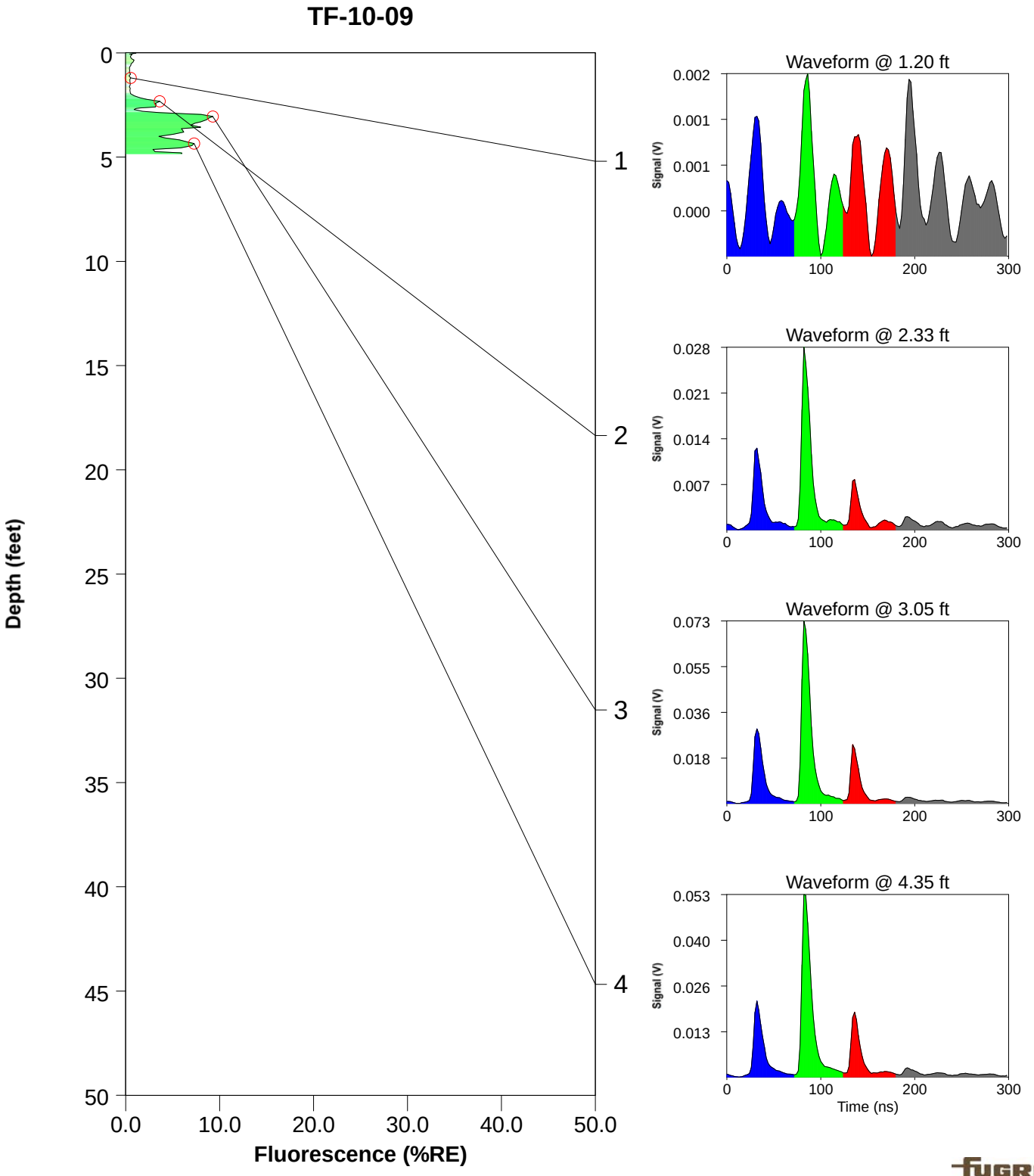
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 8:41:50 AM	Max fluorescence: 1.53% @ 2.65 ft
ROST Unit: 2	Final depth BGS: 2.68 ft



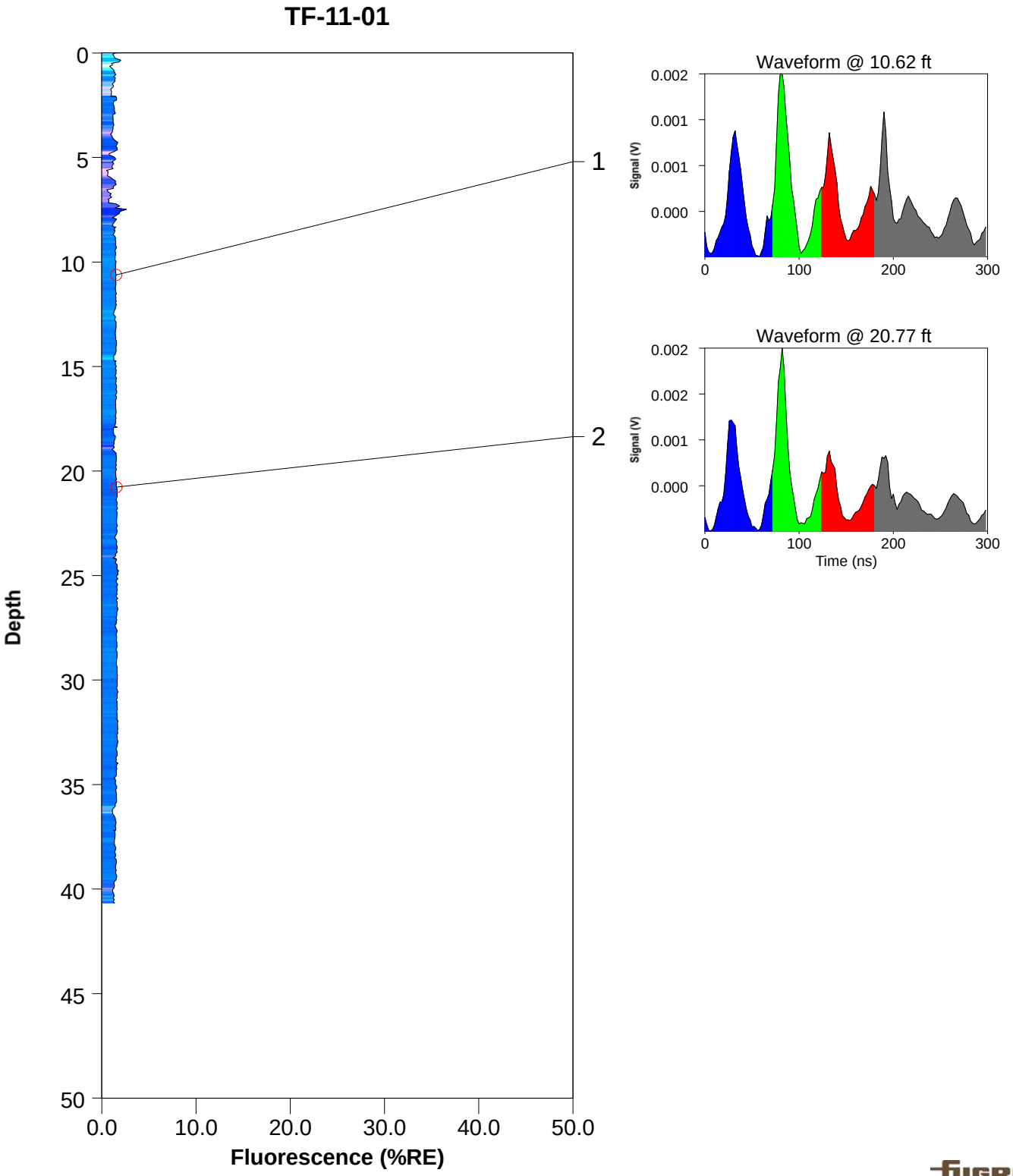
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 9:55:28 AM	Max fluorescence: 9.27% @ 3.05 ft
ROST Unit: 2	Final depth BGS: 4.84 ft



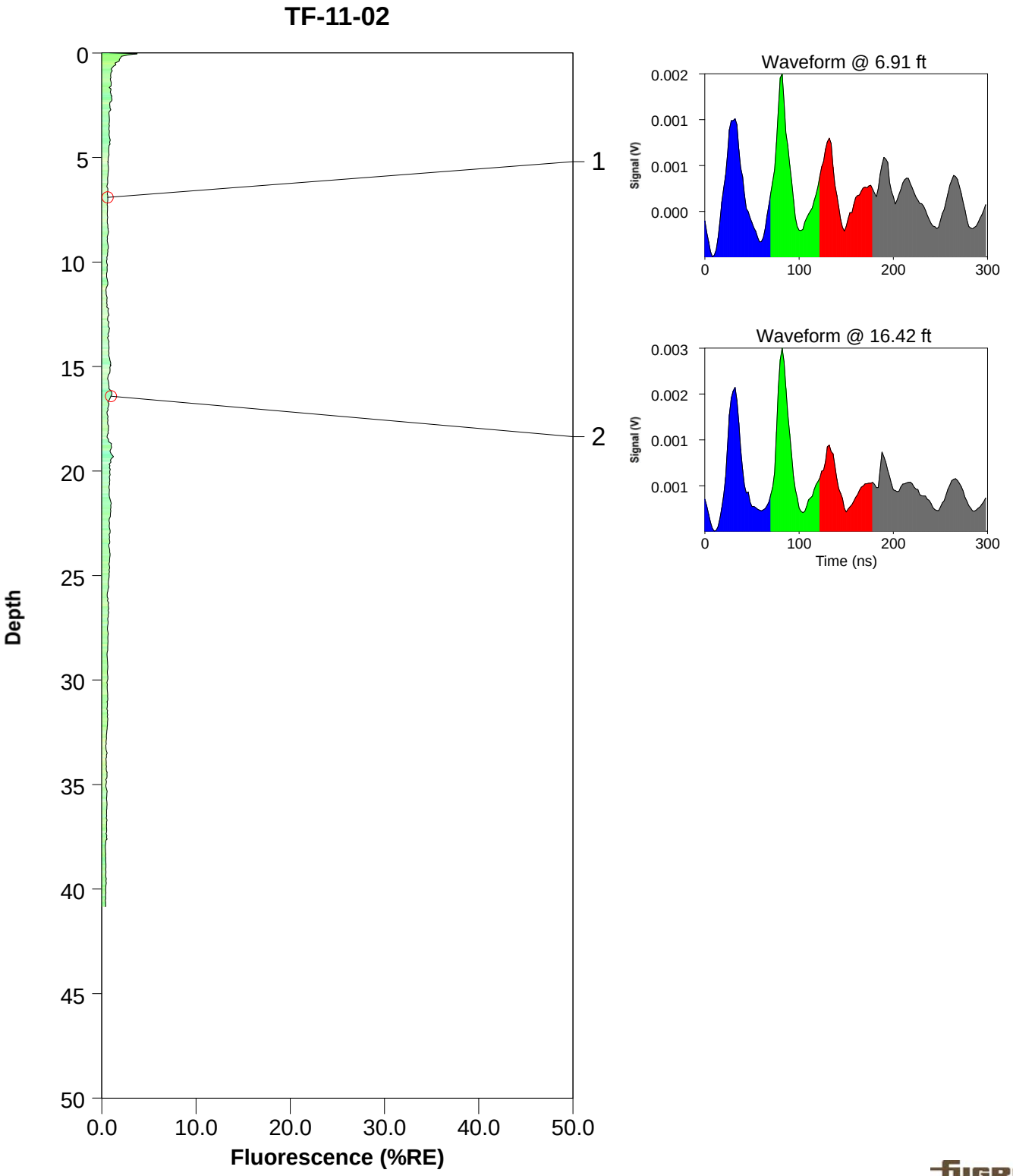
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 11:01:30 AM	Max fluorescence: 2.59% @ 7.48 ft
ROST Unit: ?	Final depth BGS: 40.67 ft



ROST Fluorescence Response Data

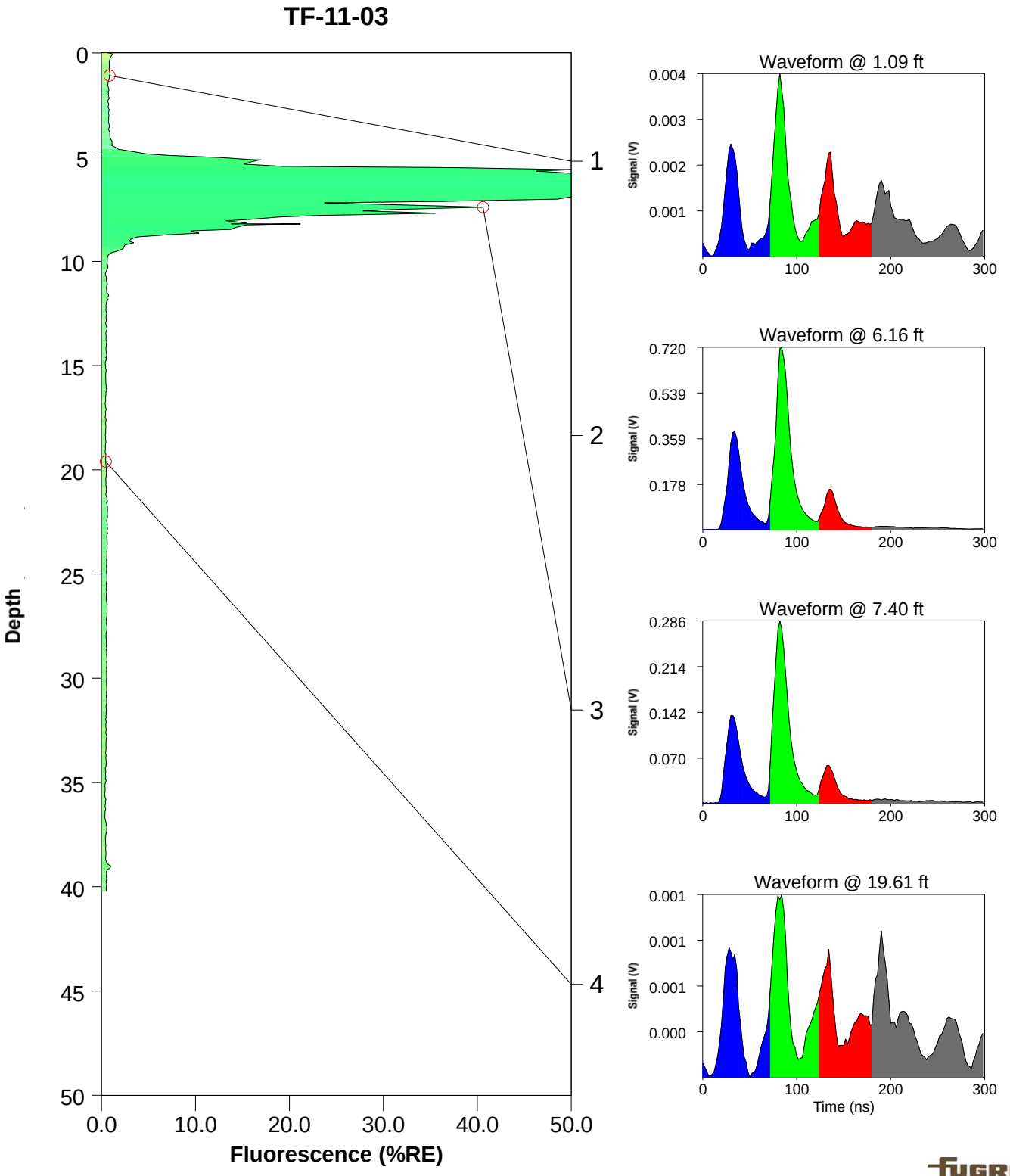
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 12:14:28 PM	Max fluorescence: 3.75% @ 0.04 ft
ROST Unit: ?	Final depth BGS: 40.83 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

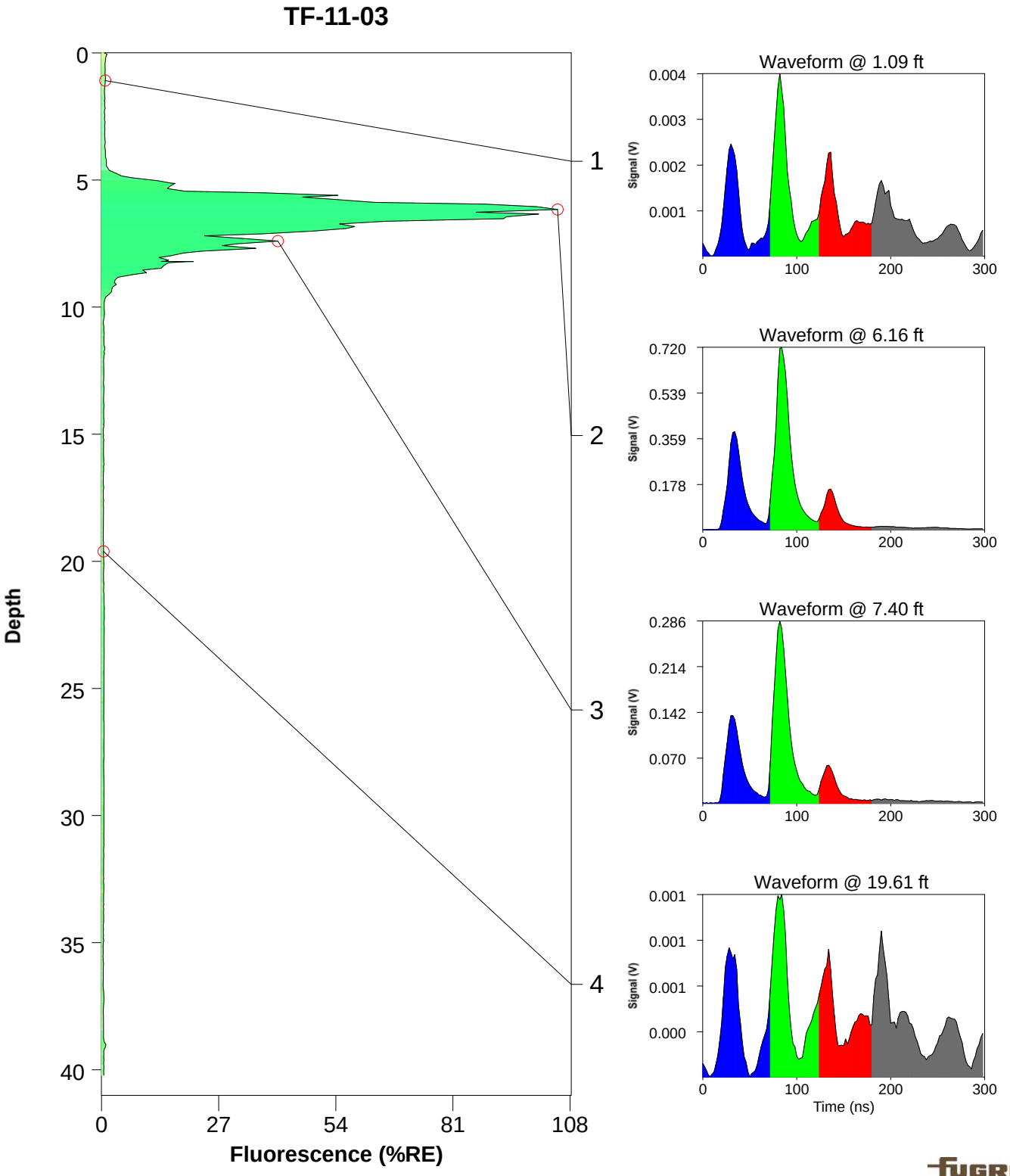
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 11:40:10 AM	Max fluorescence: 105.04% @ 6.16 ft
ROST Unit: ?	Final depth BGS: 40.21 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

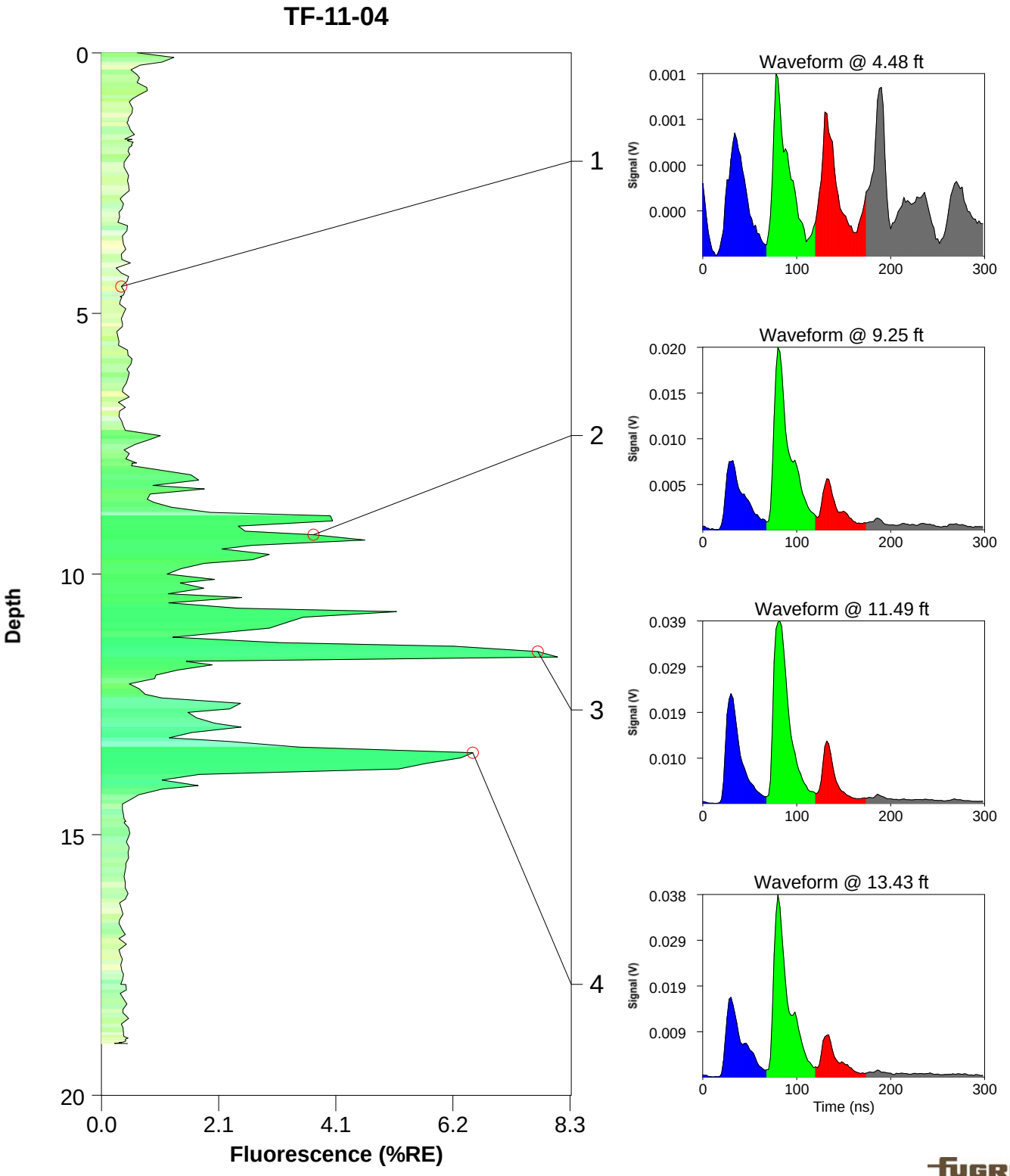
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 11:40:10 AM	Max fluorescence: 105.04% @ 6.16 ft
ROST Unit: ?	Final depth BGS: 40.21 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

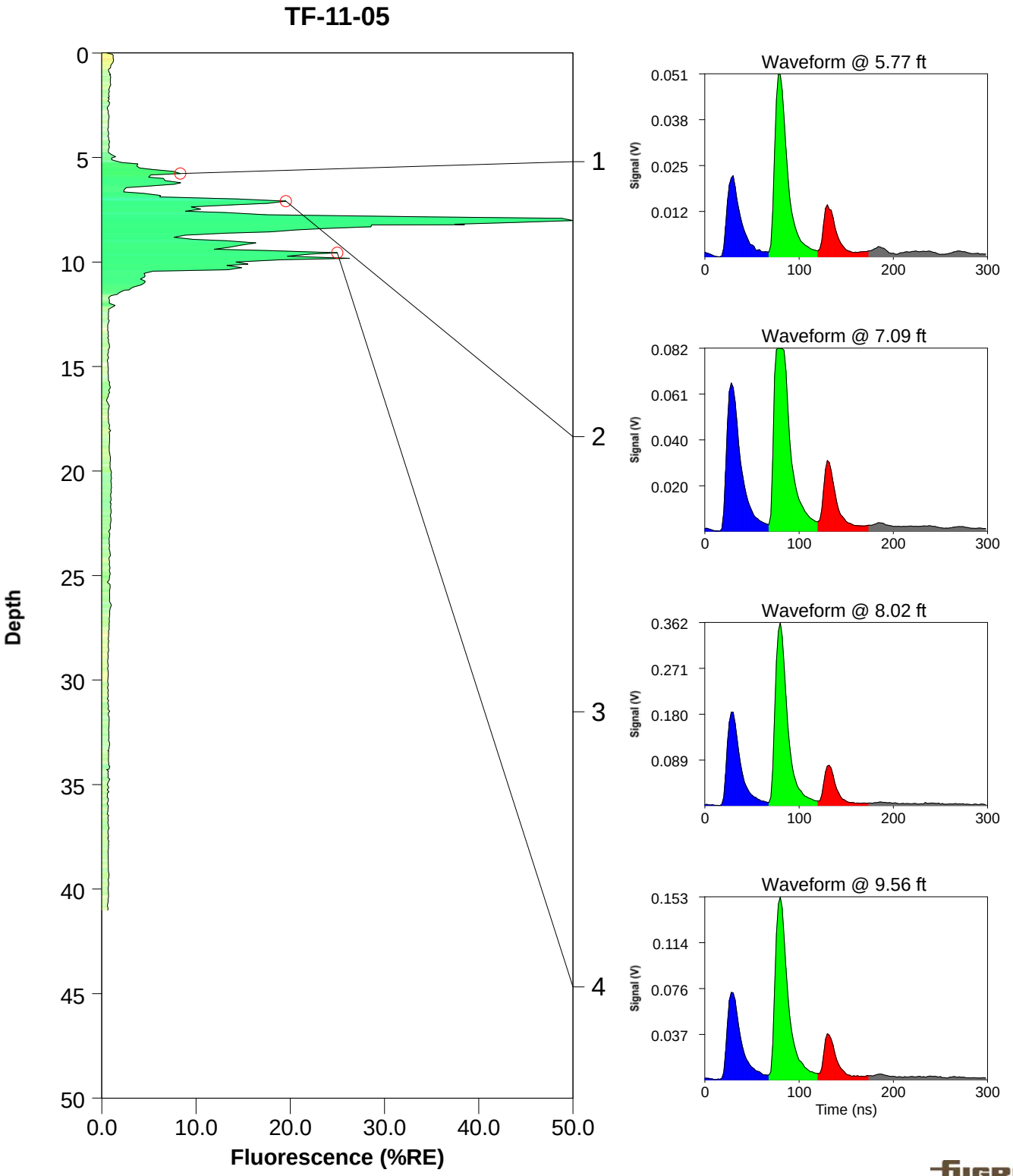
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 10:35:07 AM	Max fluorescence: 8.07% @ 11.59 ft
ROST Unit: ?	Final depth BGS: 19.01 ft



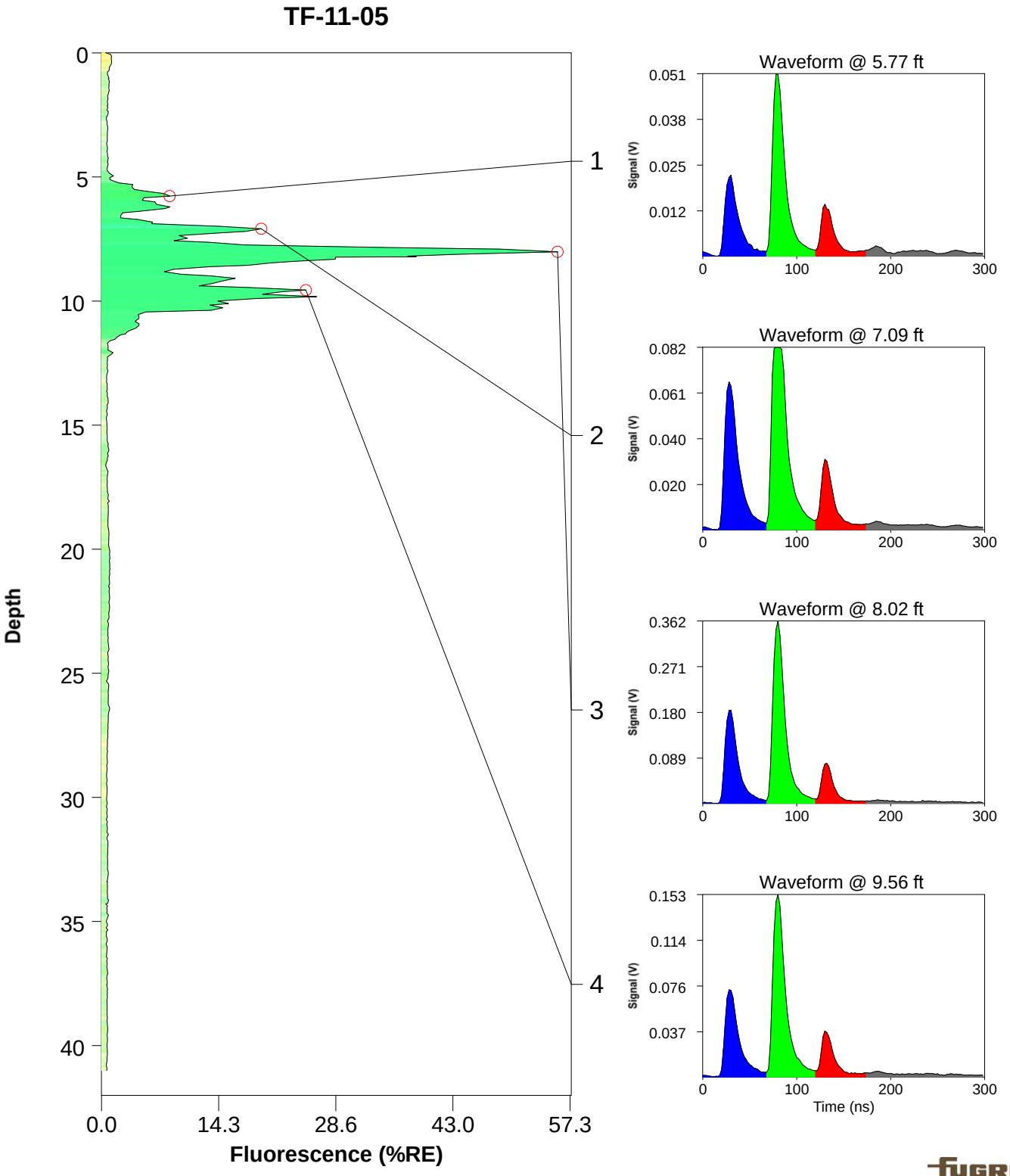
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 9:45:57 AM	Max fluorescence: 55.76% @ 8.02 ft
ROST Unit: ?	Final depth BGS: 41.00 ft



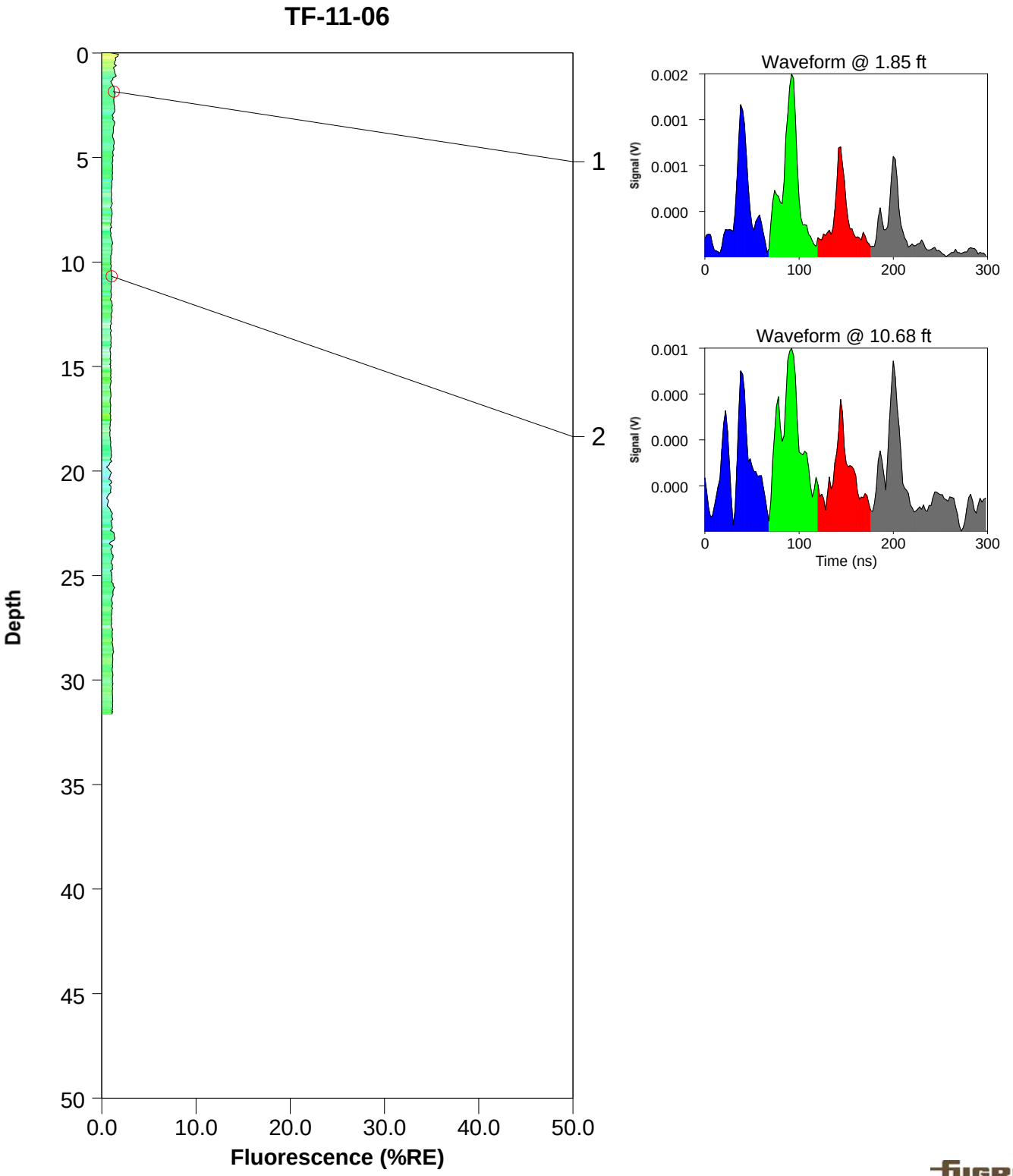
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 9:45:57 AM	Max fluorescence: 55.76% @ 8.02 ft
ROST Unit: ?	Final depth BGS: 41.00 ft



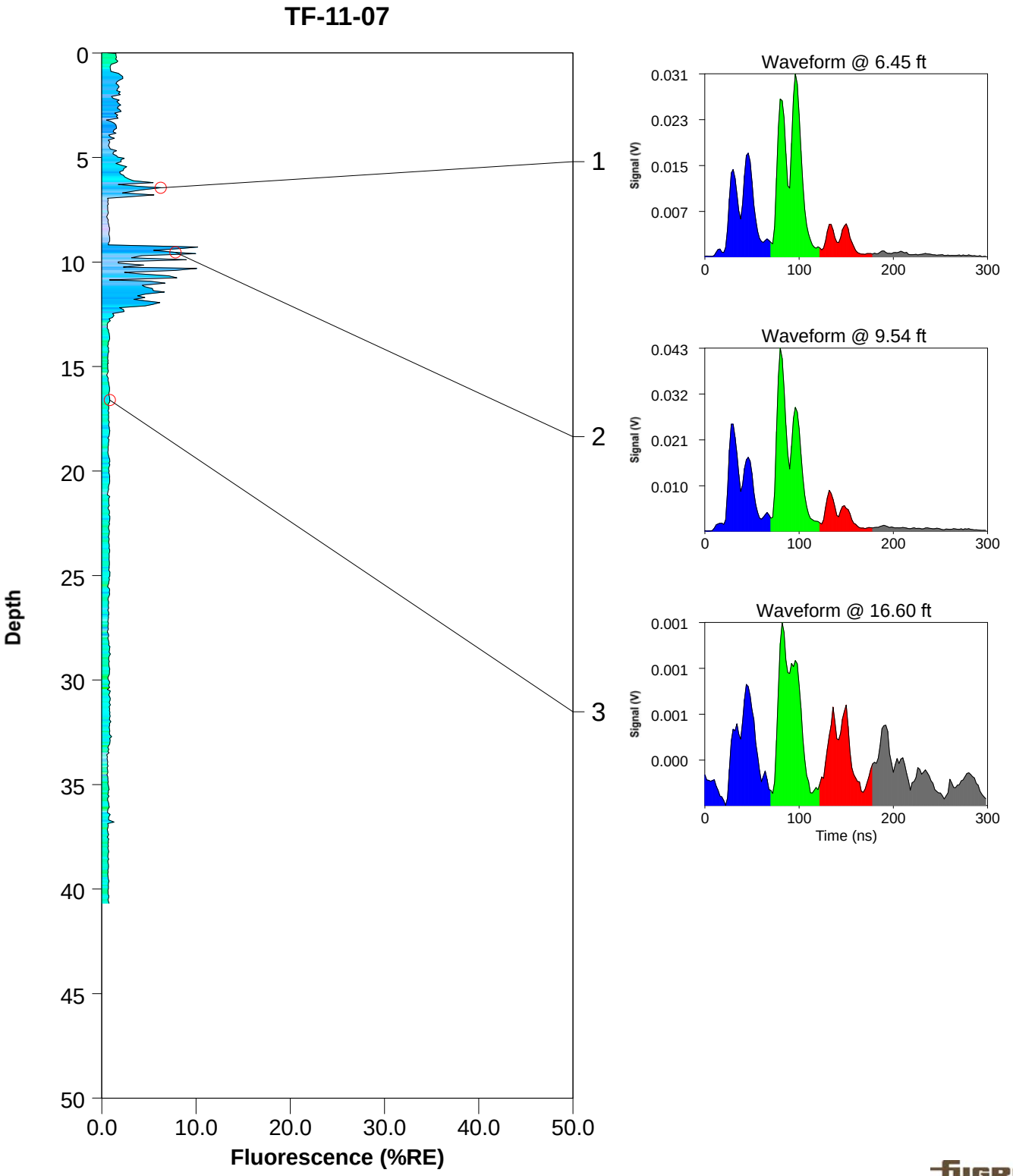
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 12:50:41 PM	Max fluorescence: 1.77% @ 0.06 ft
ROST Unit: ?	Final depth BGS: 31.62 ft



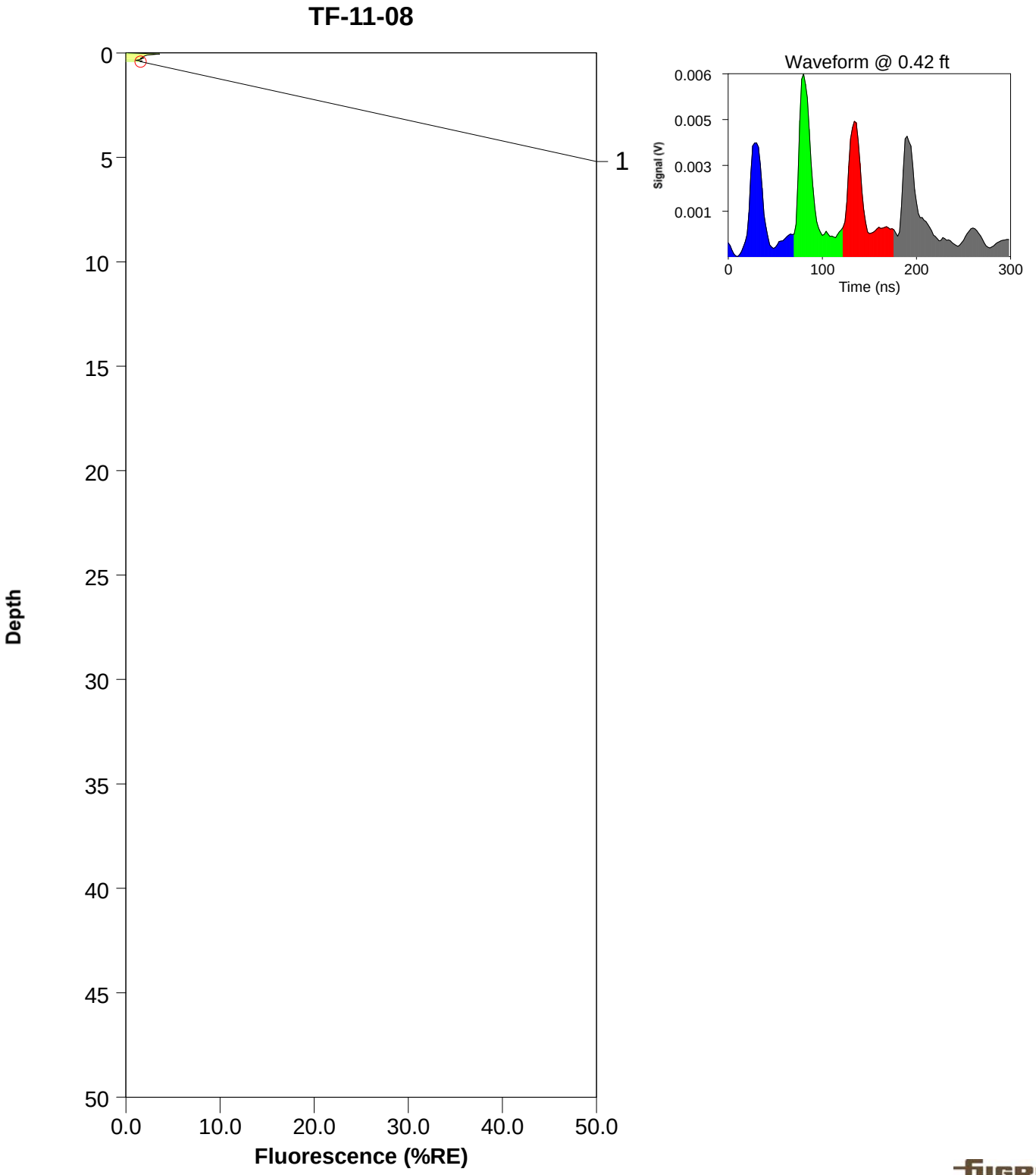
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 2:23:56 PM	Max fluorescence: 10.18% @ 9.29 ft
ROST Unit: ?	Final depth BGS: 40.68 ft



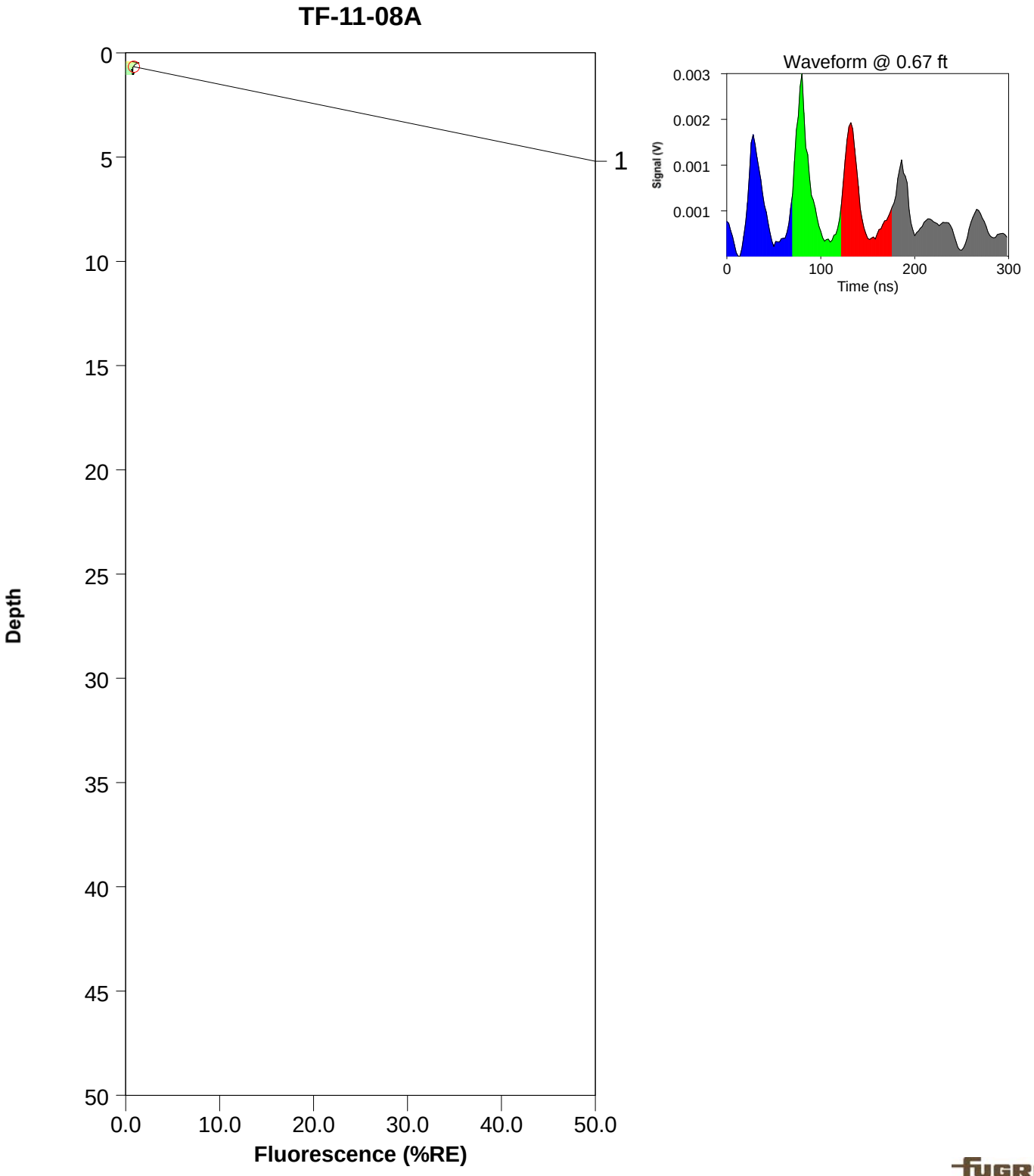
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 9:12:20 AM	Max fluorescence: 3.58% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 0.42 ft



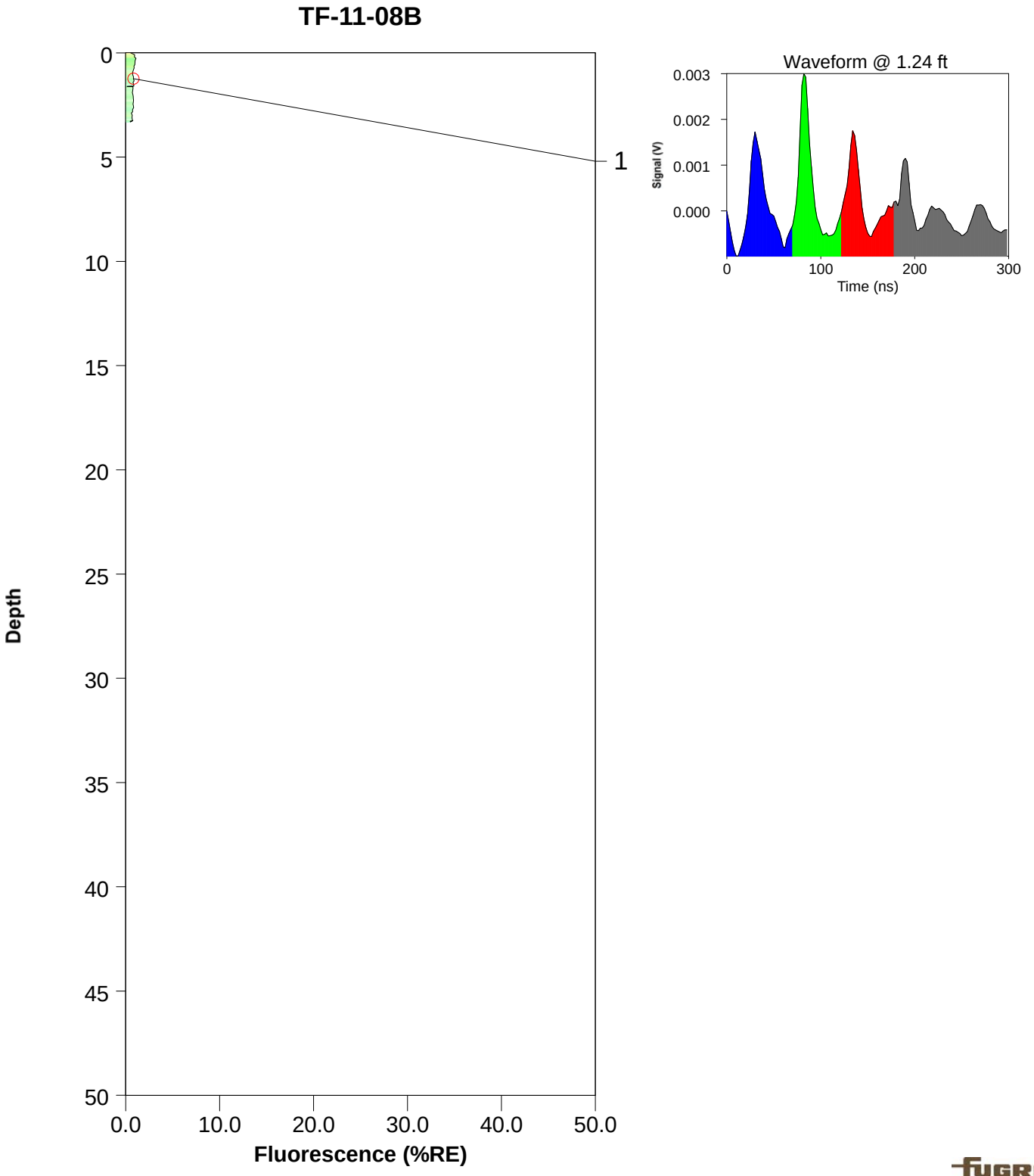
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 9:29:32 AM	Max fluorescence: 1.42% @ 0.48 ft
ROST Unit: ?	Final depth BGS: 1.04 ft



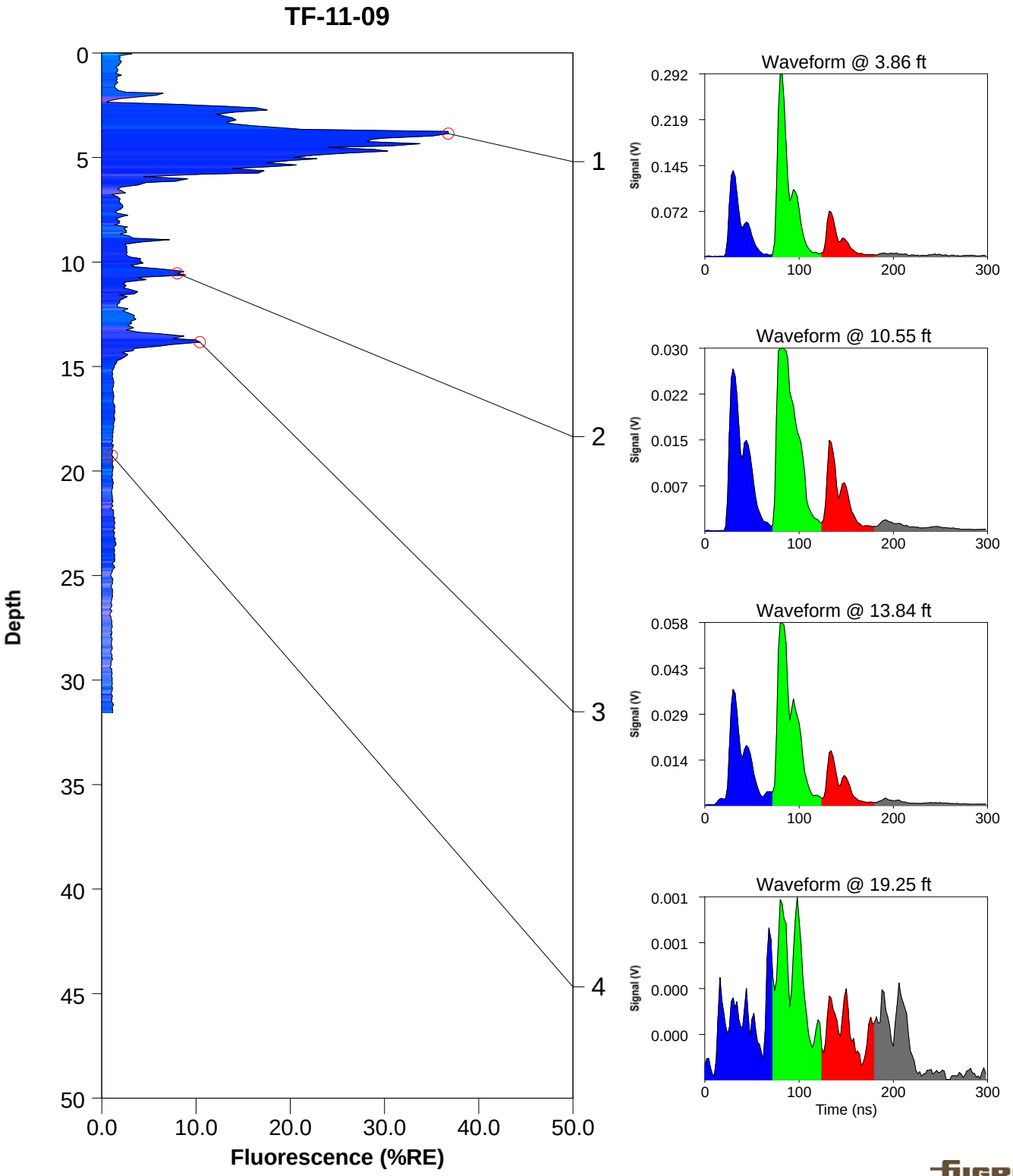
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 1:23:13 PM	Max fluorescence: 1.10% @ 0.26 ft
ROST Unit: ?	Final depth BGS: 3.32 ft



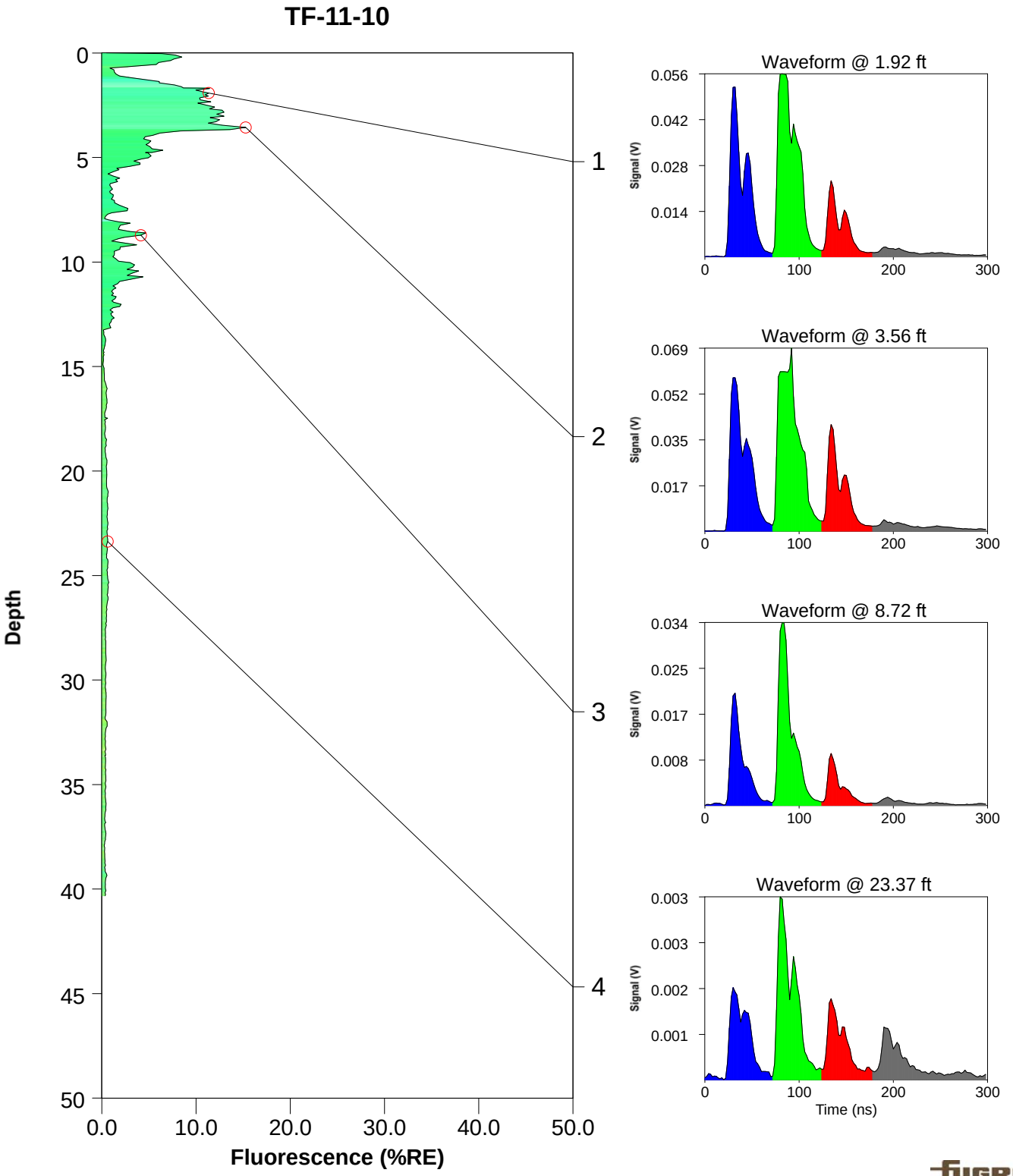
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 3:46:40 PM	Max fluorescence: 36.76% @ 3.76 ft
ROST Unit: ?	Final depth BGS: 31.57 ft



ROST Fluorescence Response Data

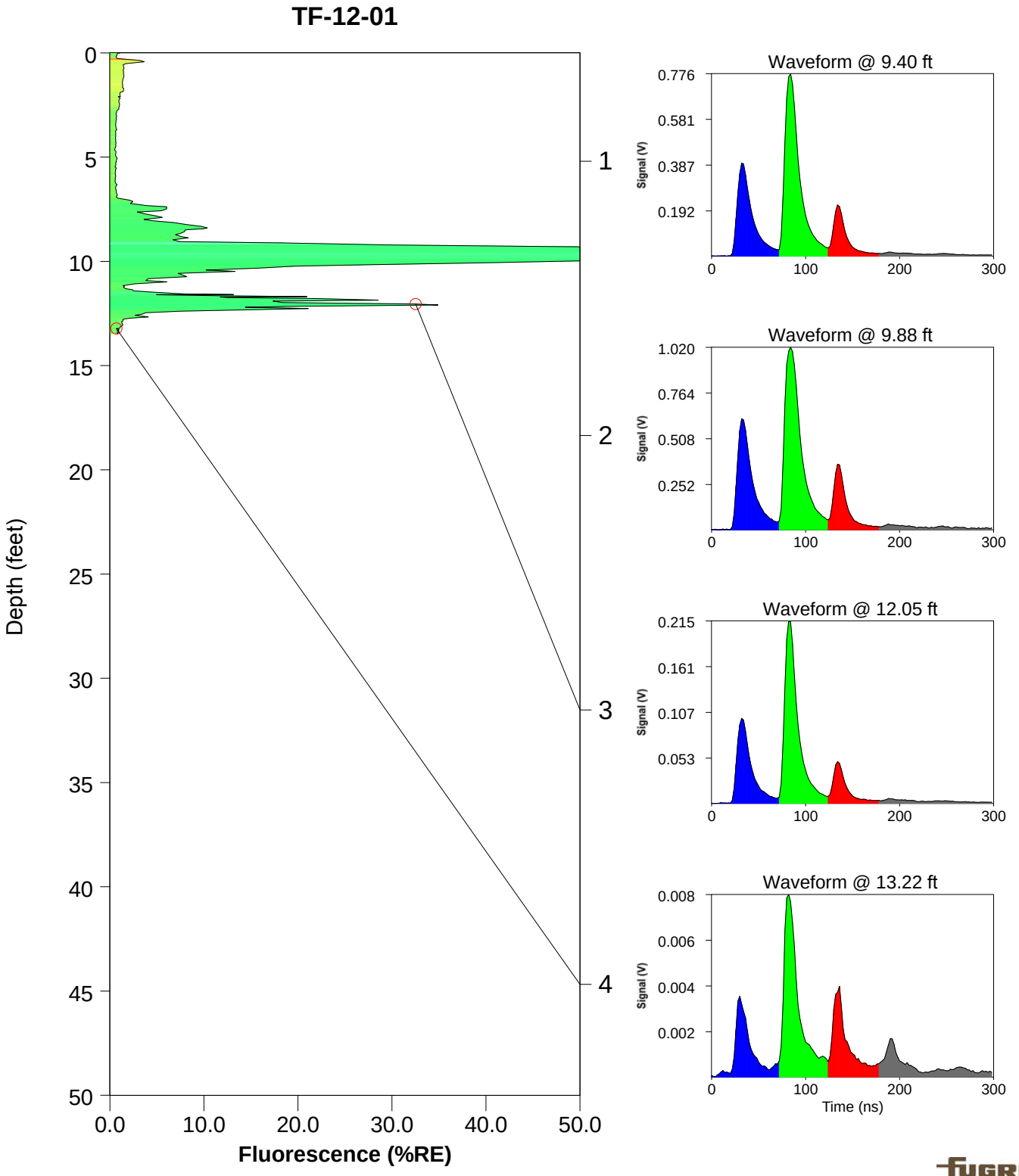
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/5/2015 @ 4:12:19 PM	Max fluorescence: 15.26% @ 3.56 ft
ROST Unit: ?	Final depth BGS: 40.32 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

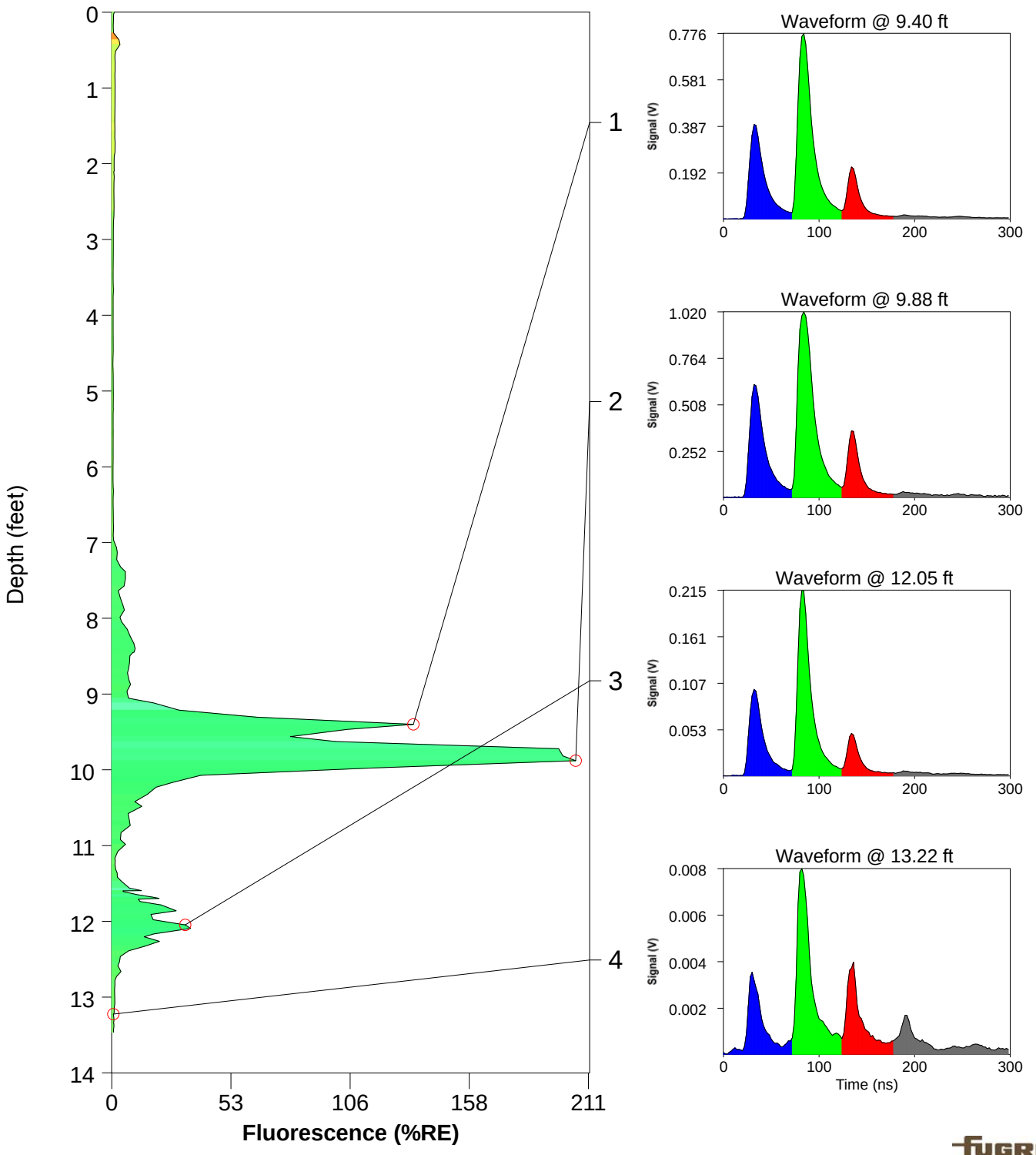
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 2:07:44 PM	Max fluorescence: 205.45% @ 9.88 ft
ROST Unit: ?	Final depth BGS: 13.46 ft



ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 2:07:44 PM	Max fluorescence: 205.45% @ 9.88 ft
ROST Unit: ?	Final depth BGS: 13.46 ft

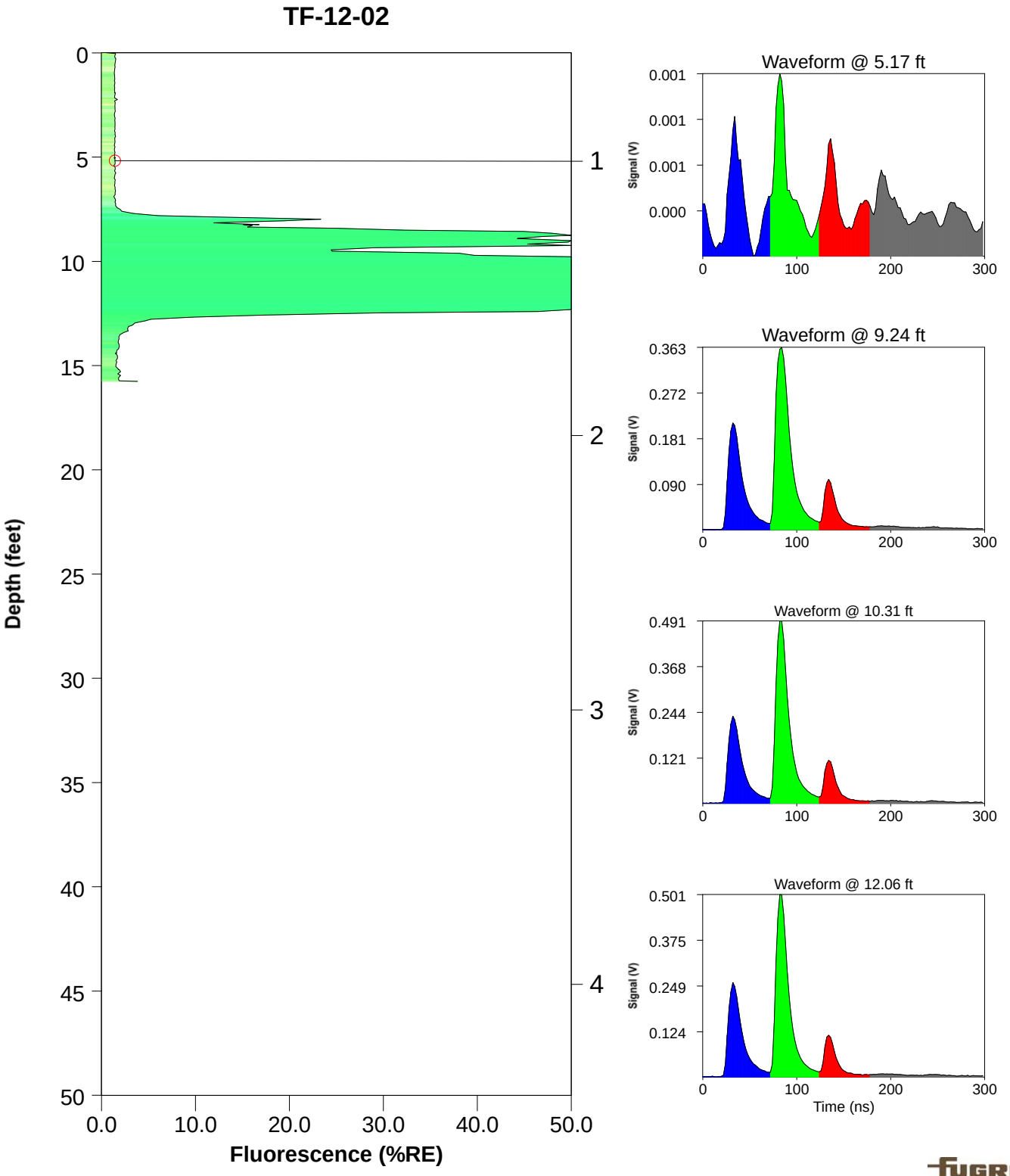
TF-12-01



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

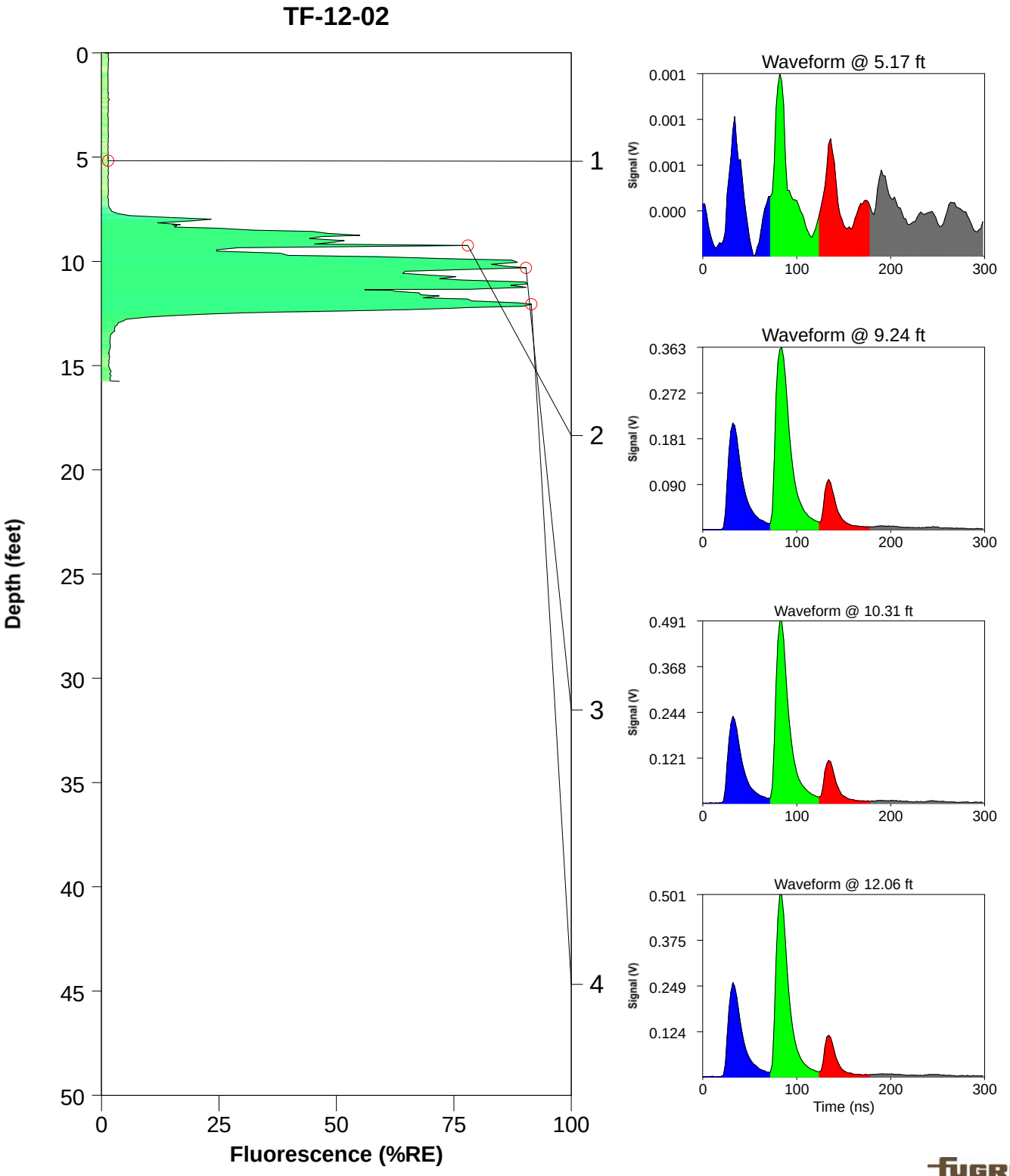
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 9:57:14 AM	Max fluorescence: 91.51% @ 12.06 ft
ROST Unit: 2	Final depth BGS: 15.76 ft



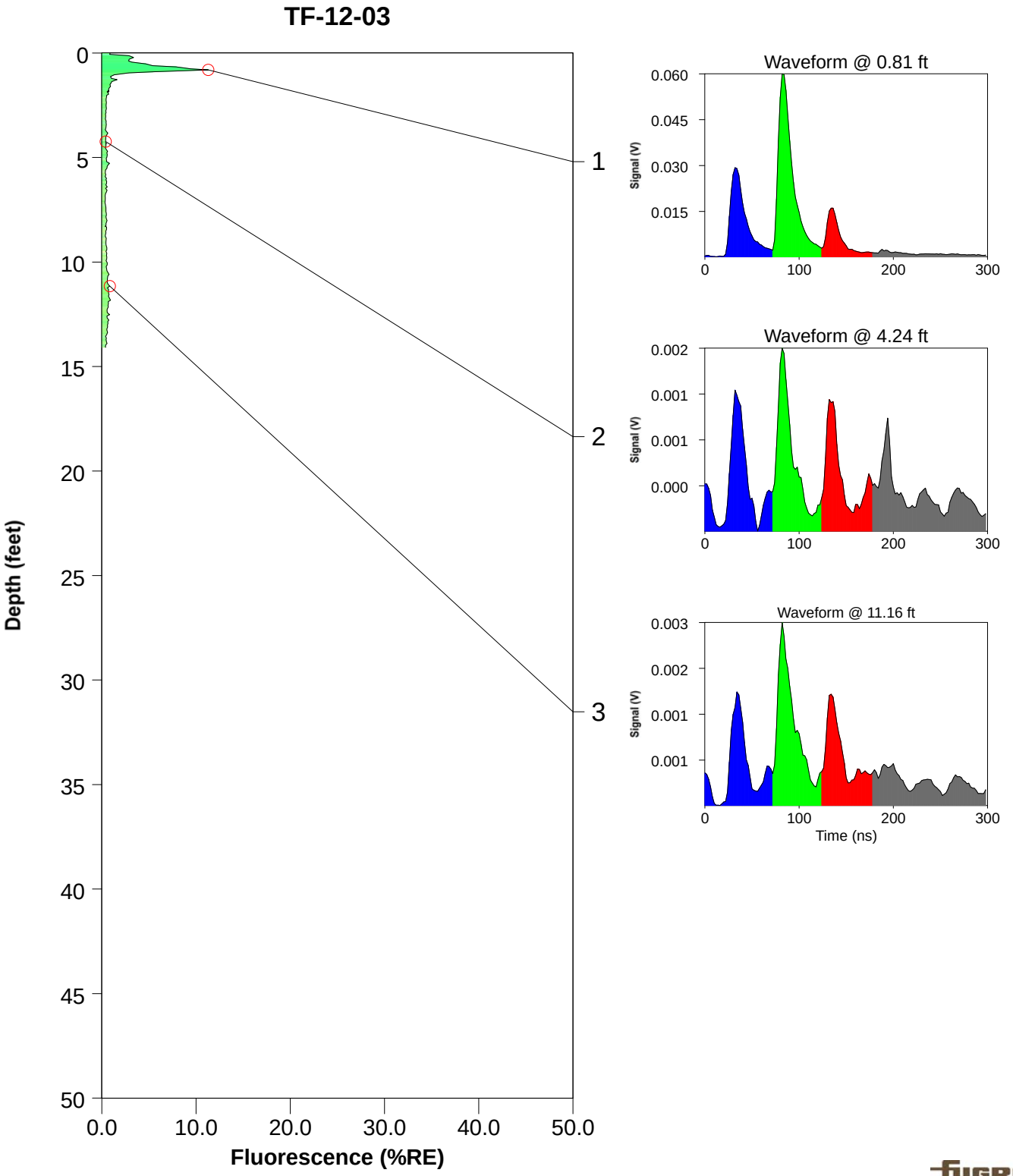
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 9:57:14 AM	Max fluorescence: 91.51% @ 12.06 ft
ROST Unit: 2	Final depth BGS: 15.76 ft



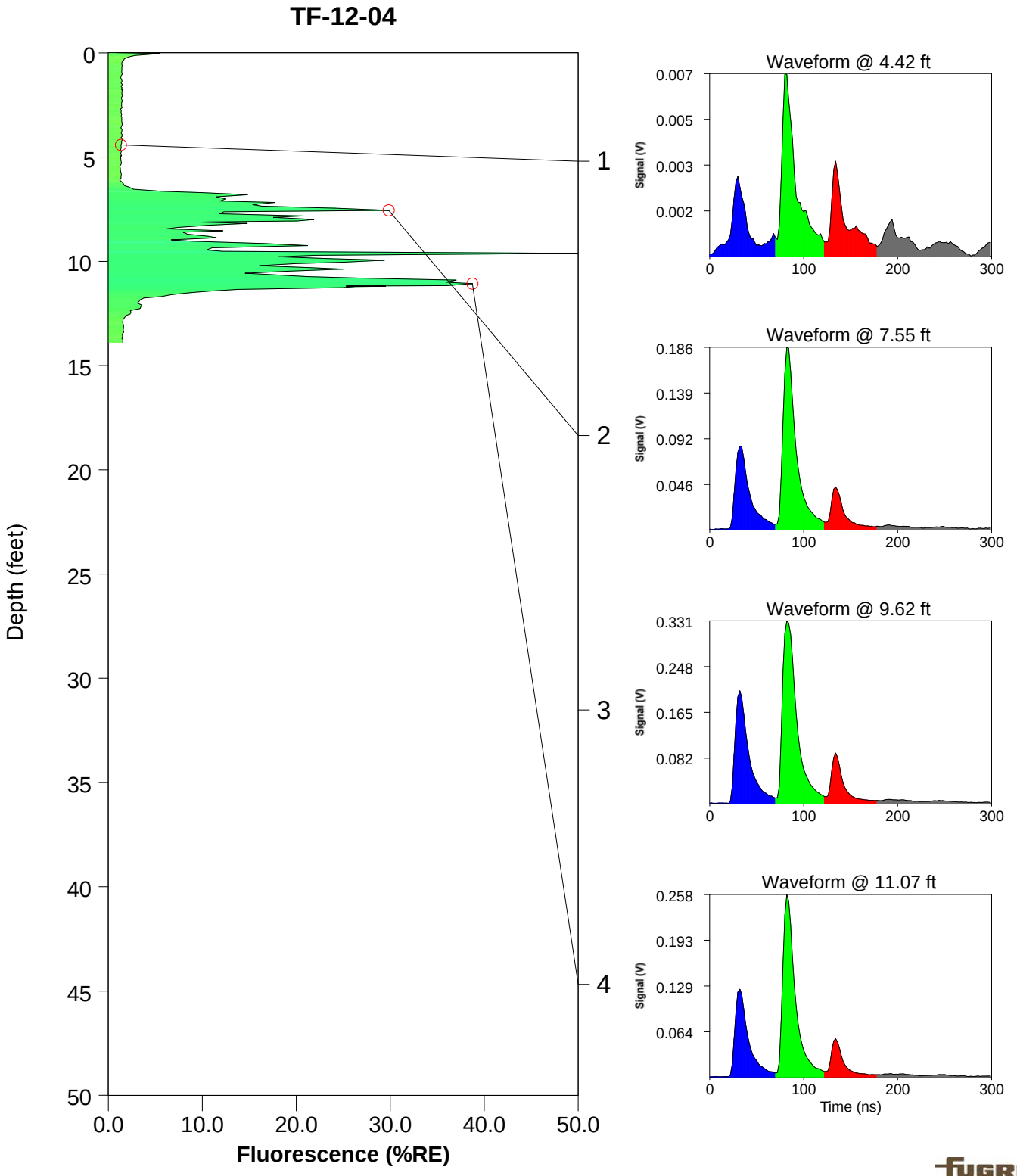
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 10:15:41 AM	Max fluorescence: 11.29% @ 0.81 ft
ROST Unit: 2	Final depth BGS: 14.08 ft



ROST Fluorescence Response Data

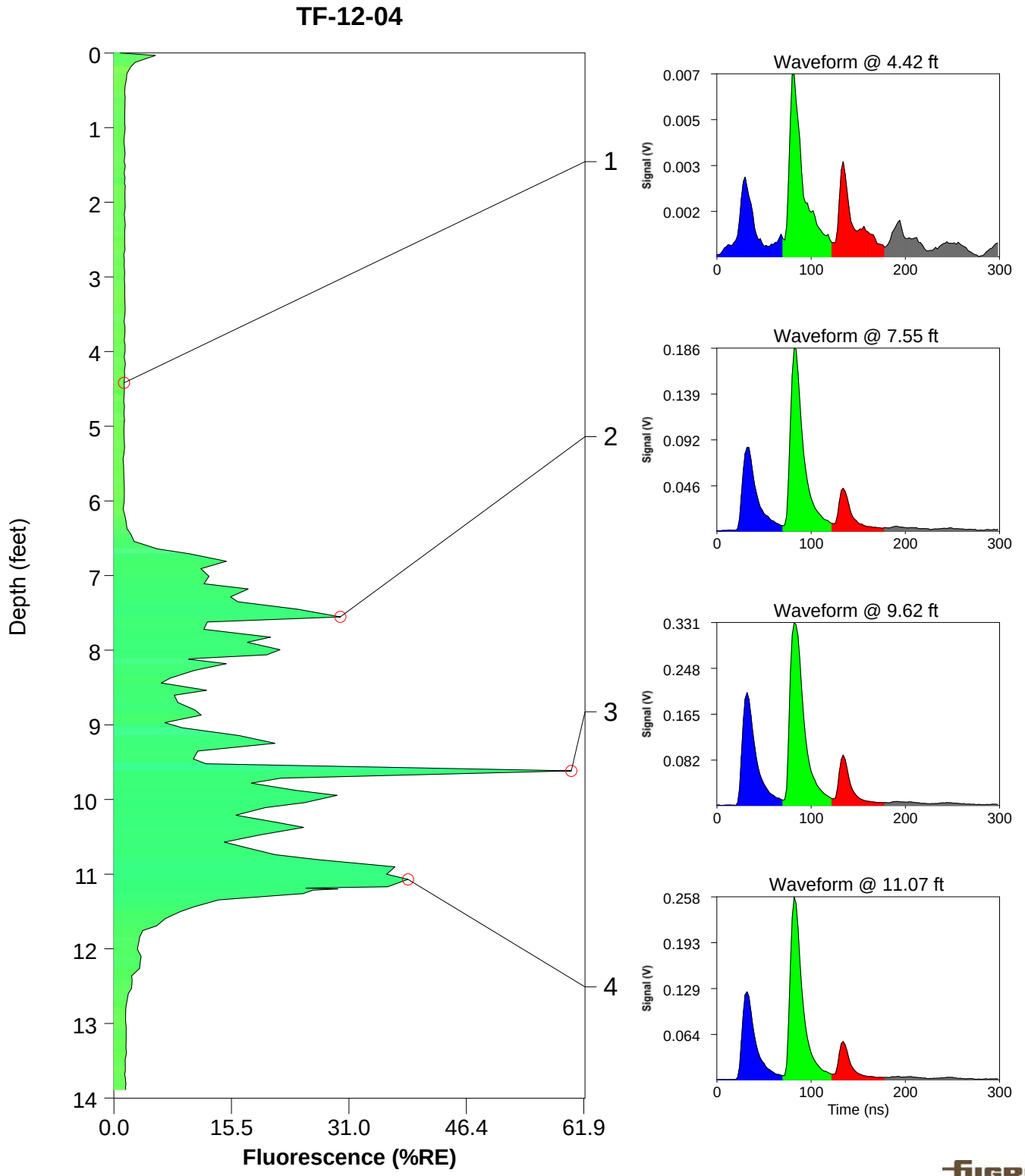
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 2:40:09 PM	Max fluorescence: 60.25% @ 9.62 ft
ROST Unit: ?	Final depth BGS: 13.89 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

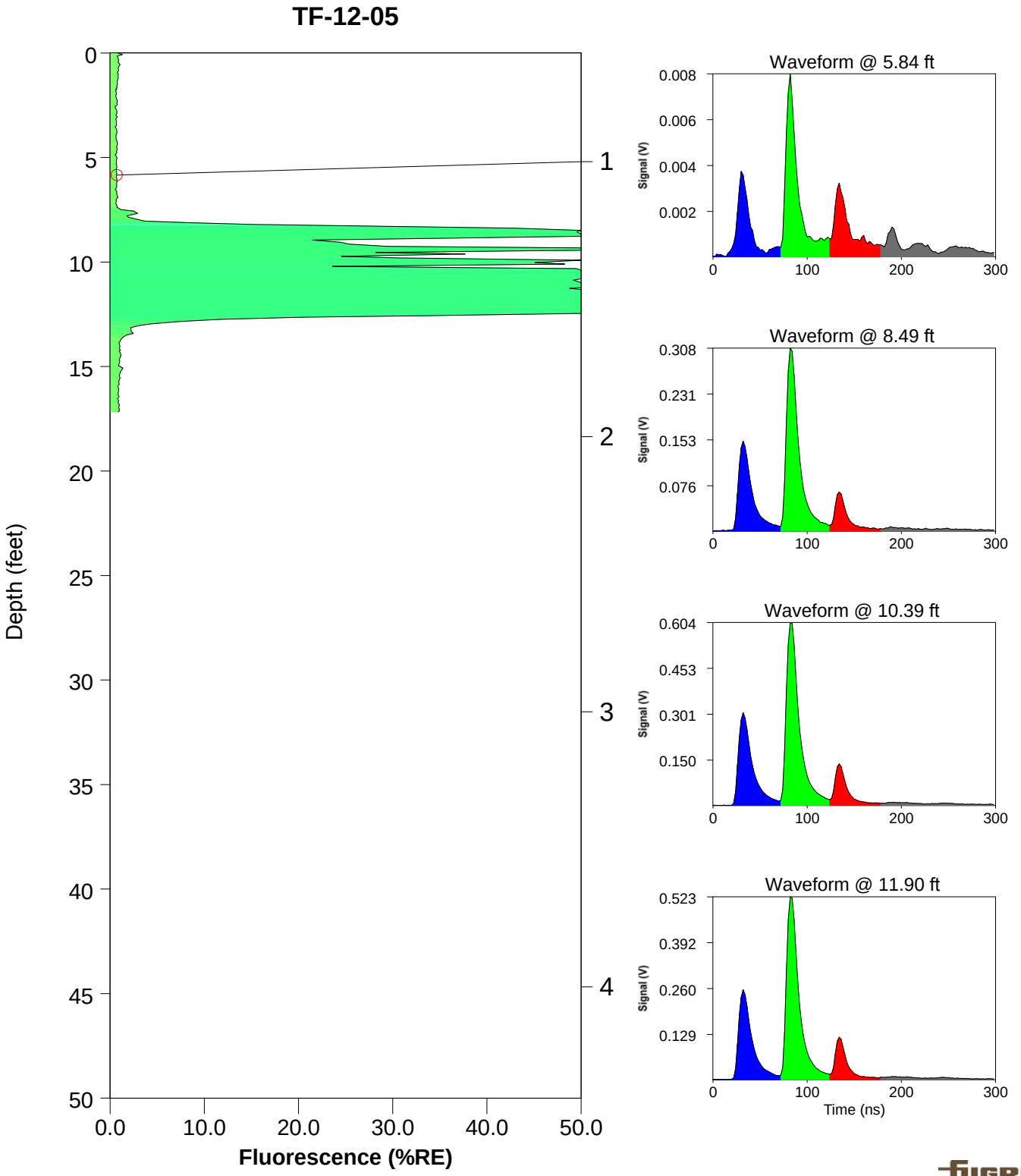
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 2:40:09 PM	Max fluorescence: 60.25% @ 9.62 ft
ROST Unit: ?	Final depth BGS: 13.89 ft



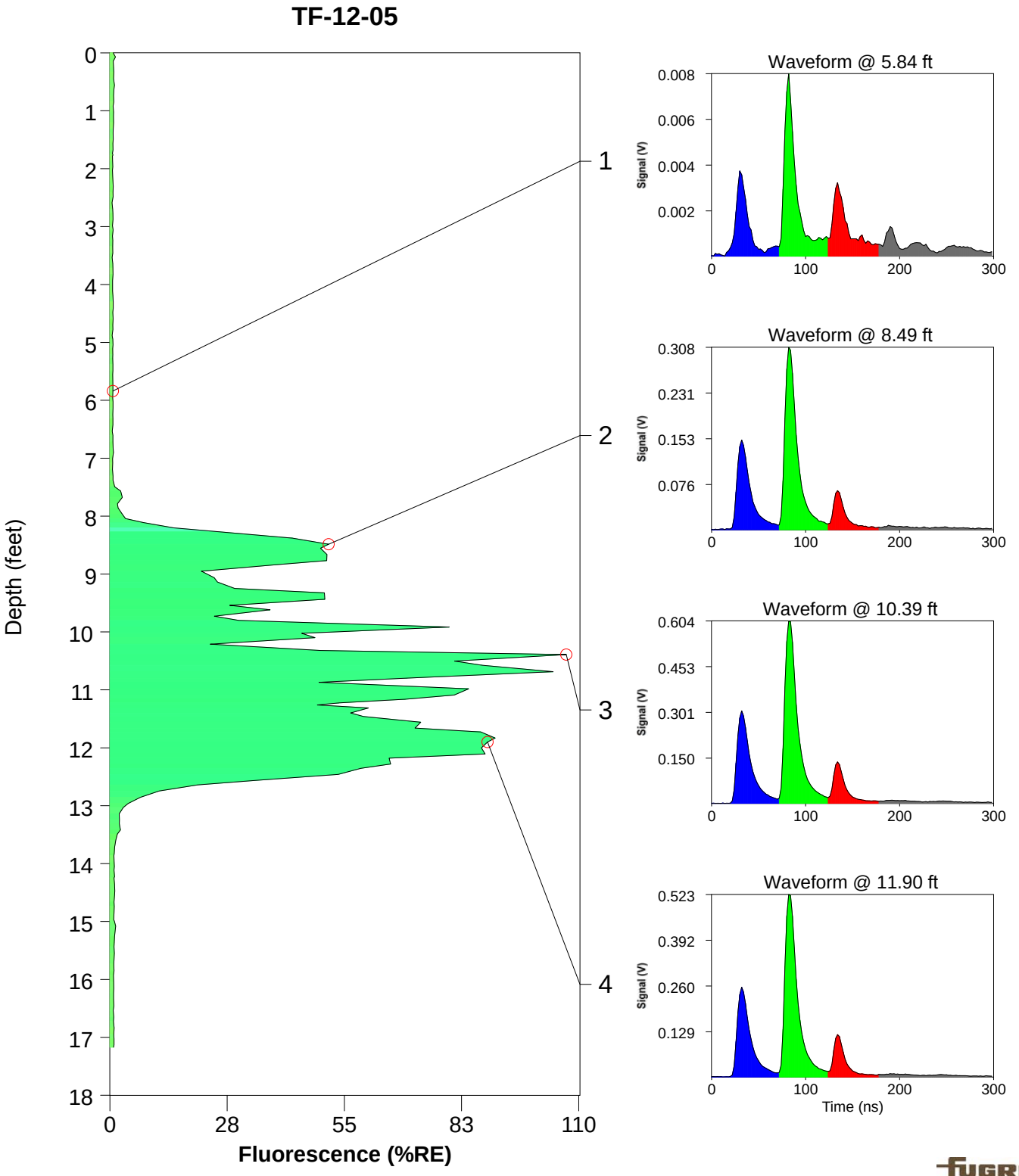
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 3:24:12 PM	Max fluorescence: 107.35% @ 10.39 ft
ROST Unit: ?	Final depth BGS: 17.17 ft



ROST Fluorescence Response Data

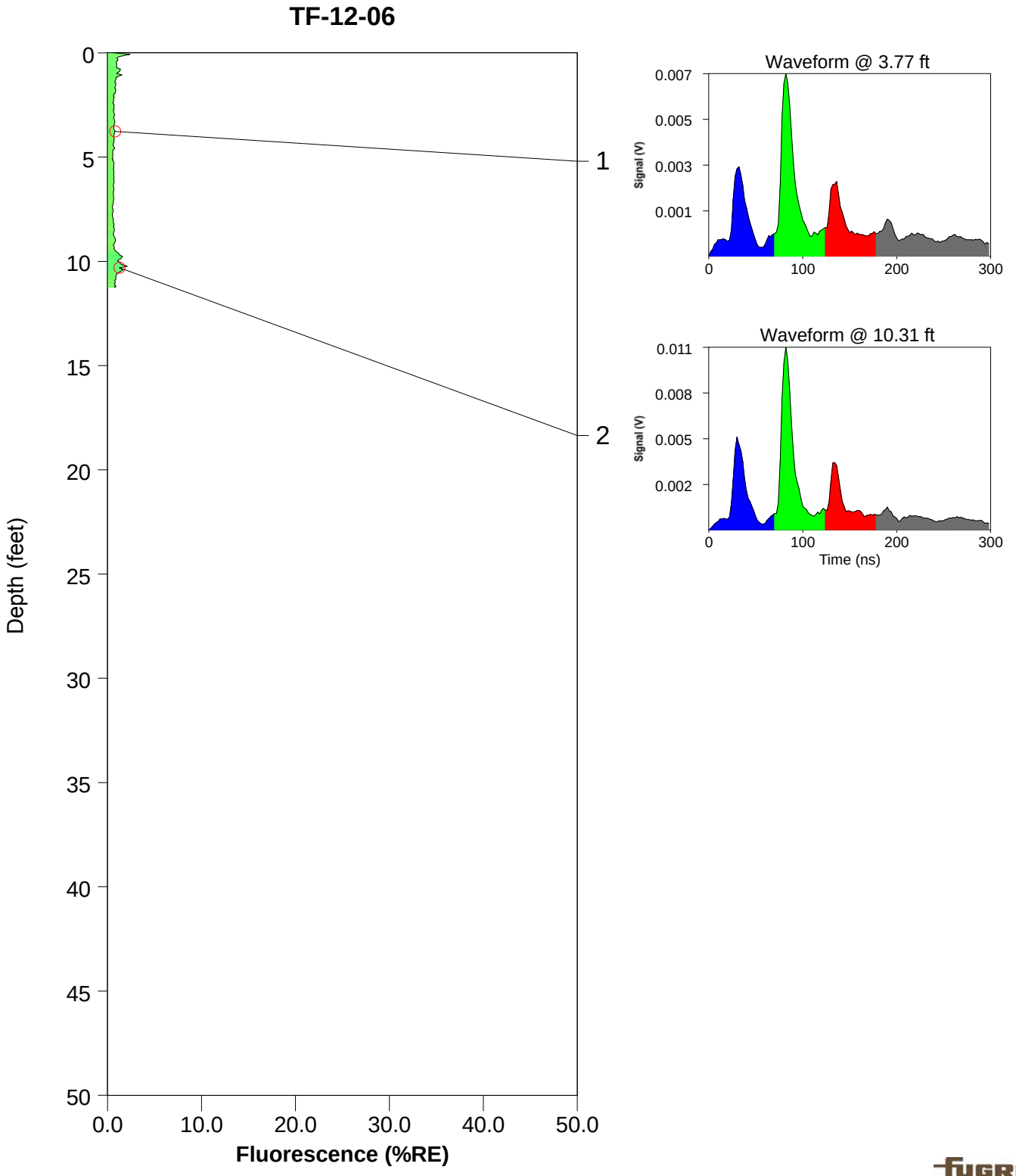
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 3:24:12 PM	Max fluorescence: 107.35% @ 10.39 ft
ROST Unit: ?	Final depth BGS: 17.17 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

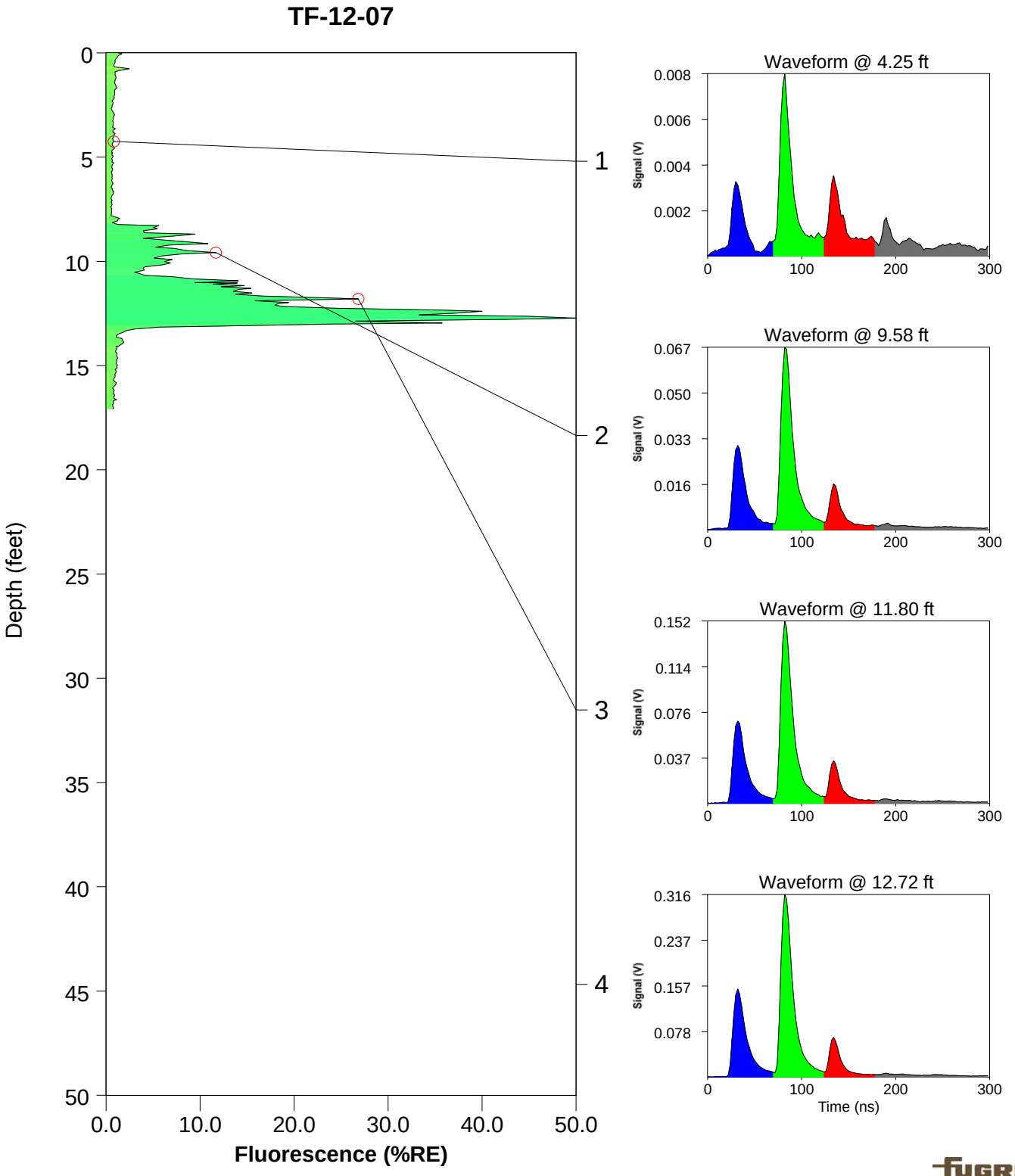
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 3:39:46 PM	Max fluorescence: 2.39% @ 0.07 ft
ROST Unit: ?	Final depth BGS: 11.24 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

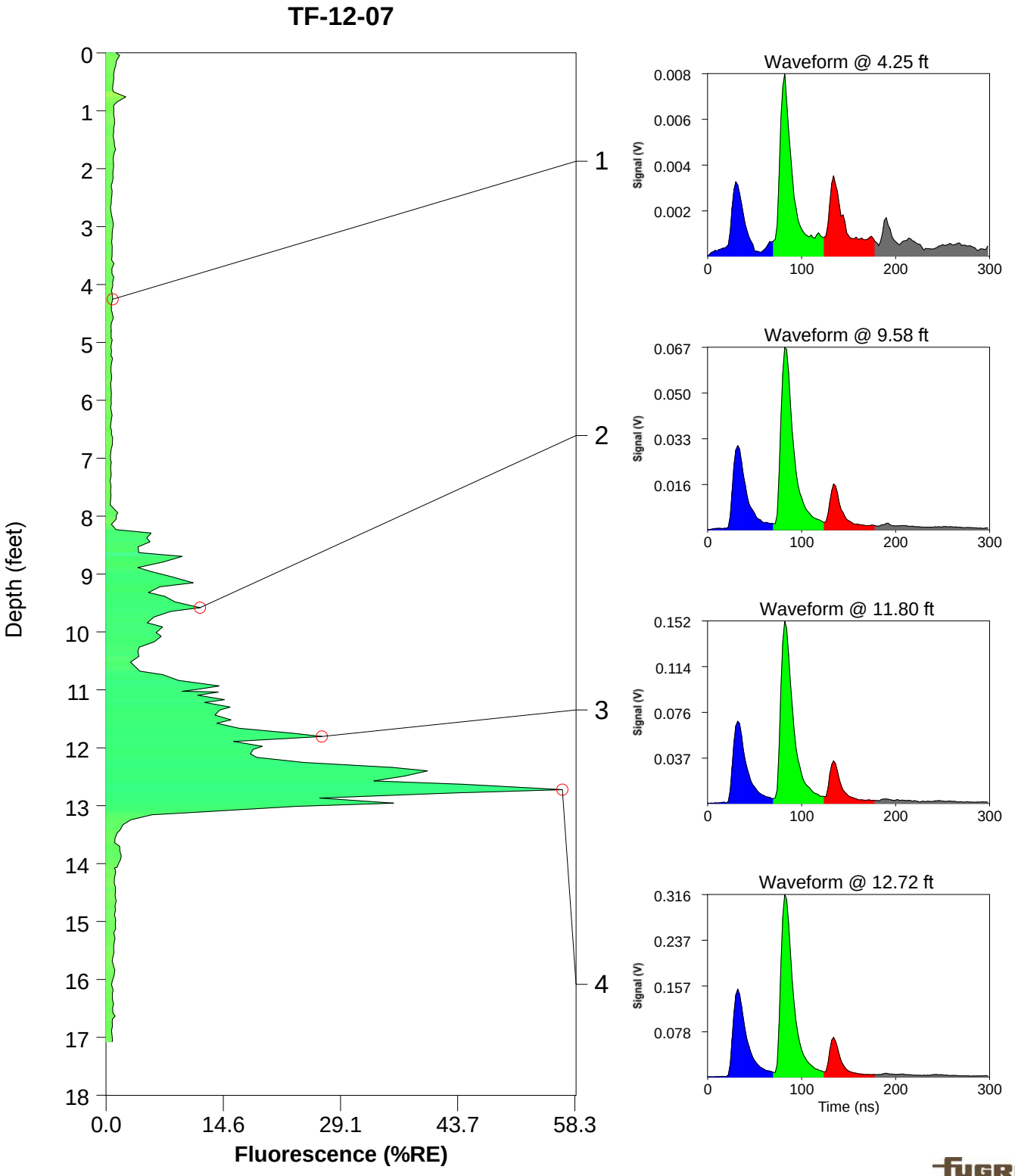
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 3:01:36 PM	Max fluorescence: 56.73% @ 12.72 ft
ROST Unit: ?	Final depth BGS: 17.08 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

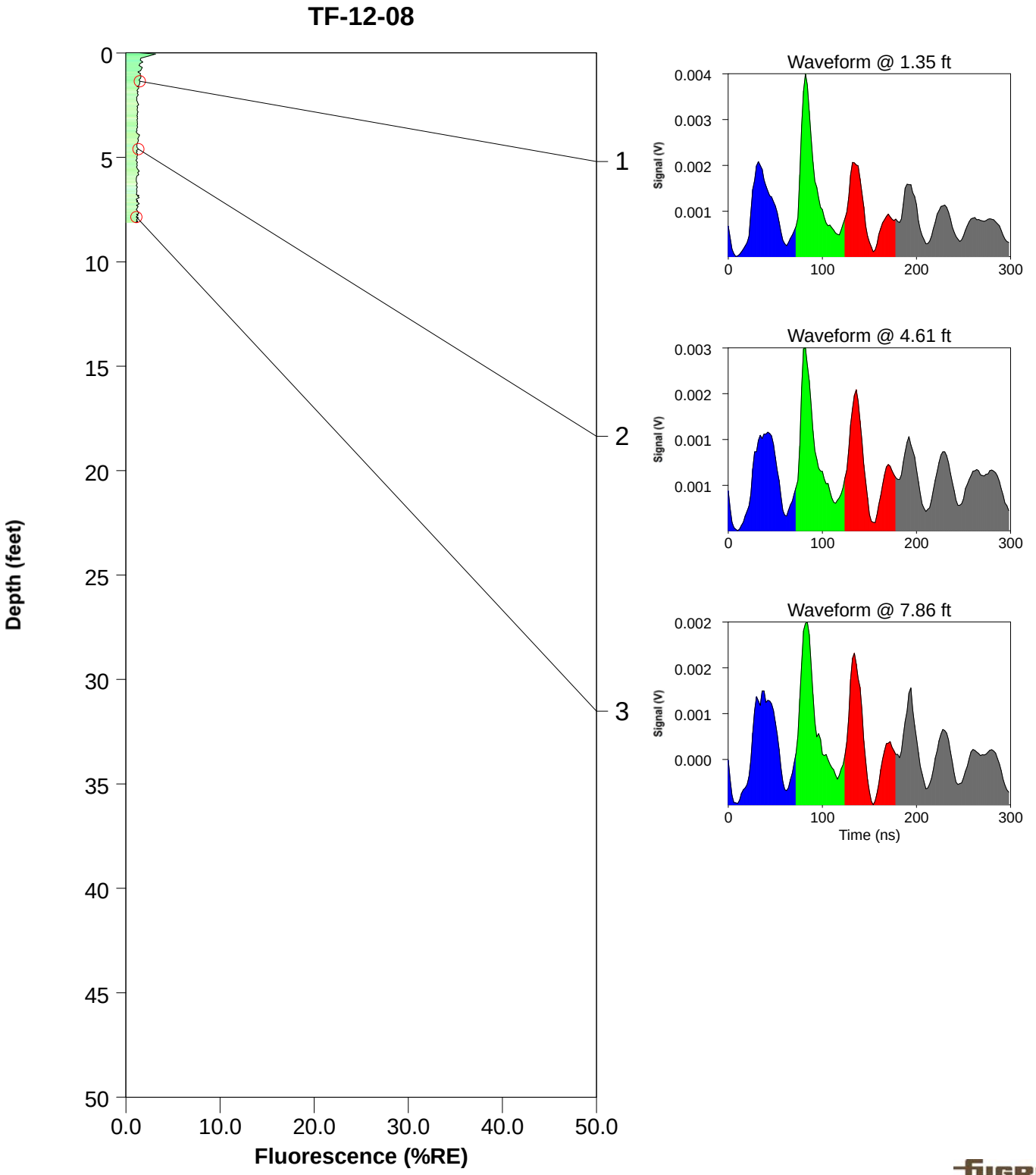
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 3:01:36 PM	Max fluorescence: 56.73% @ 12.72 ft
ROST Unit: ?	Final depth BGS: 17.08 ft



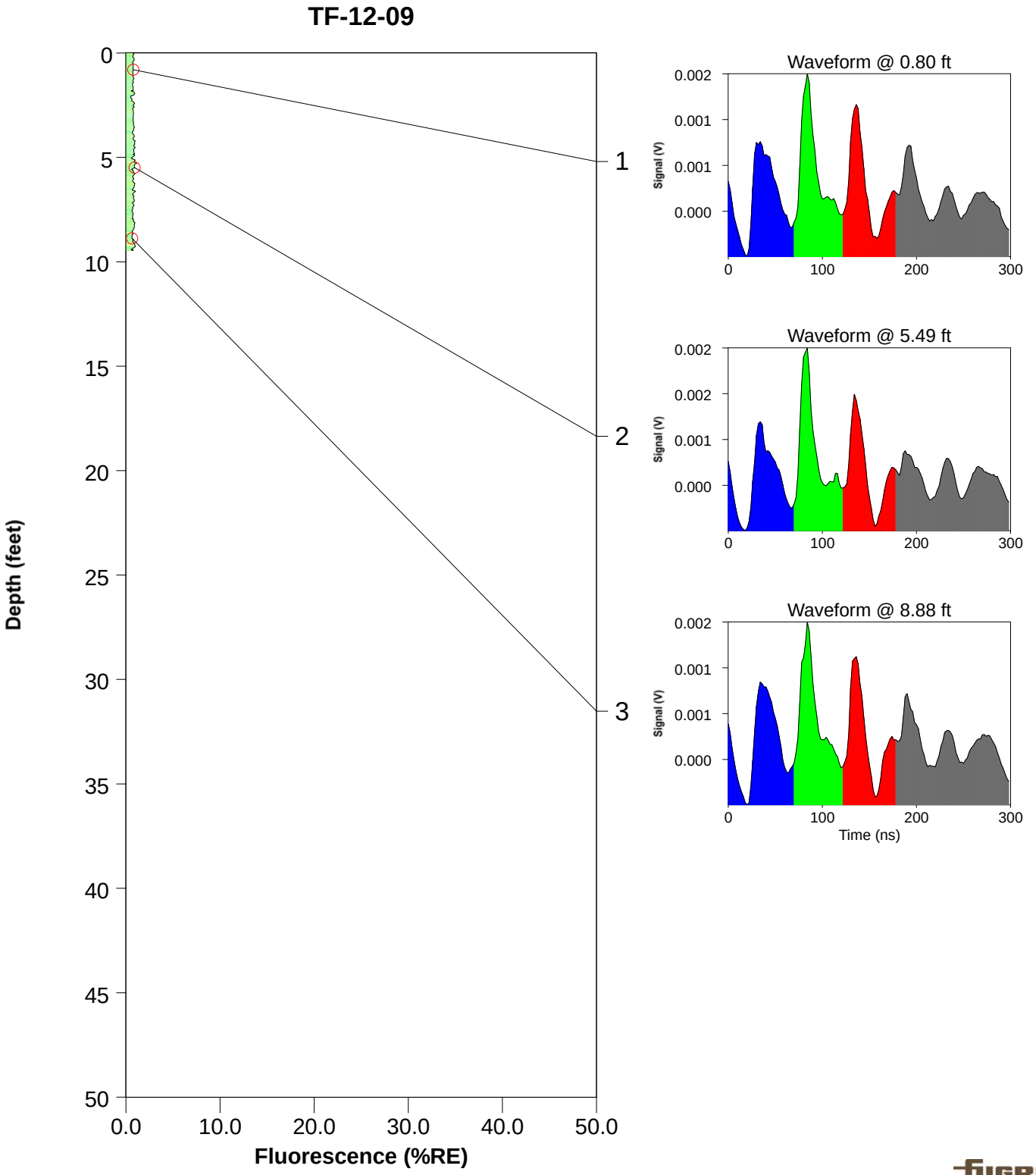
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 8:54:26 AM	Max fluorescence: 3.14% @ 0.05 ft
ROST Unit: 2	Final depth BGS: 8.12 ft



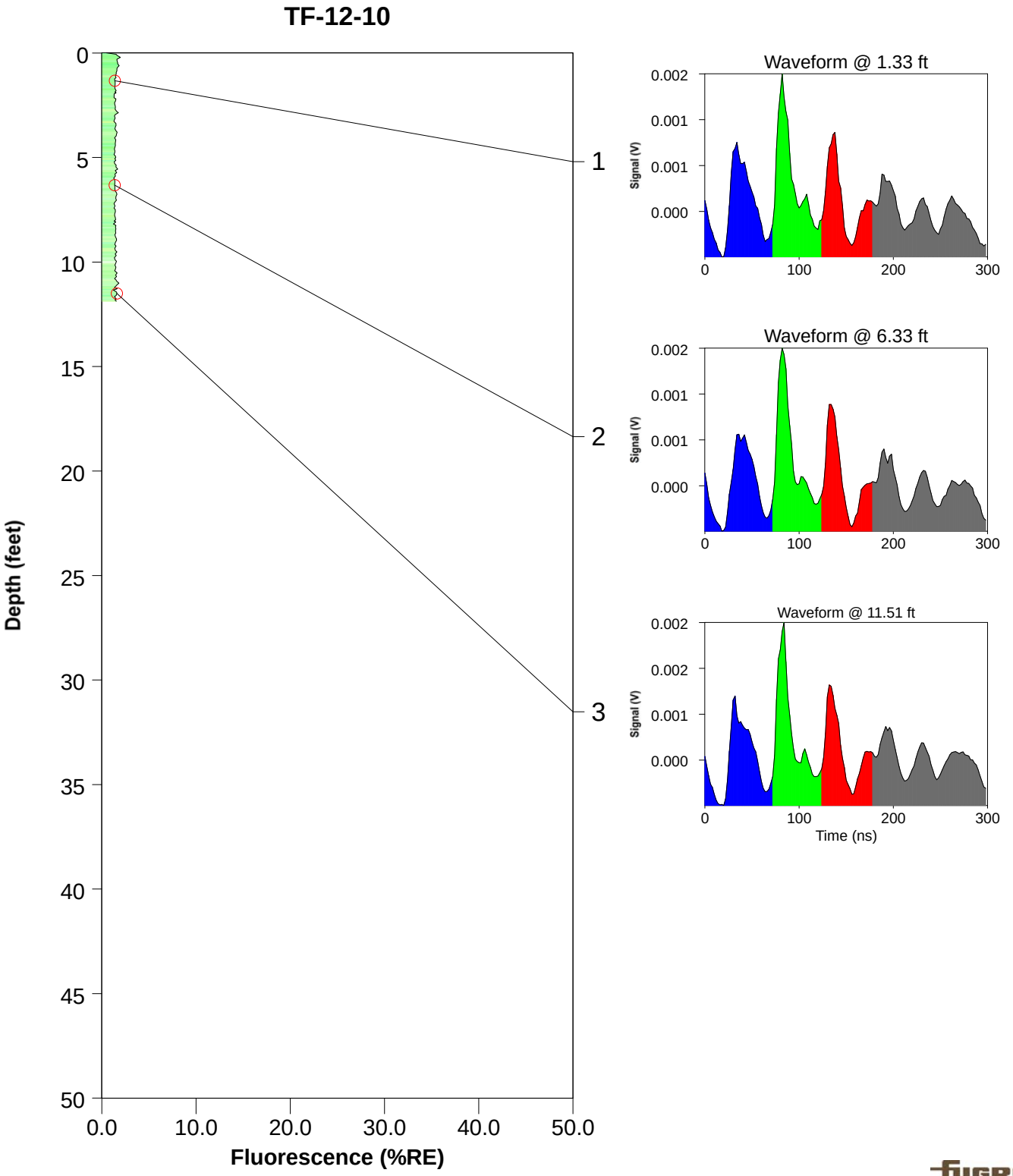
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 9:28:50 AM	Max fluorescence: 1.14% @ 5.27 ft
ROST Unit: 2	Final depth BGS: 9.46 ft



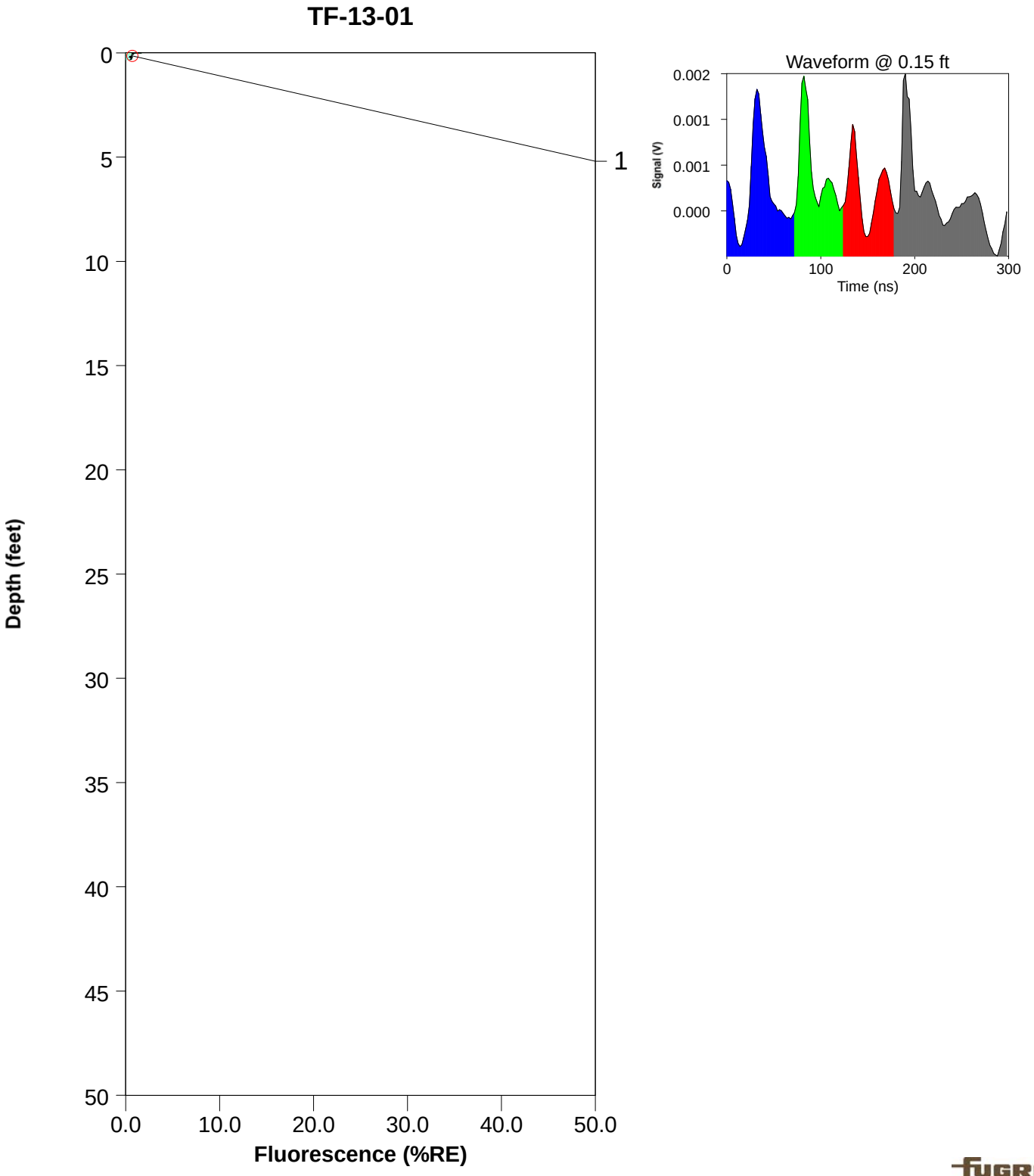
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/7/2015 @ 9:14:00 AM	Max fluorescence: 1.96% @ 0.21 ft
ROST Unit: 2	Final depth BGS: 11.88 ft



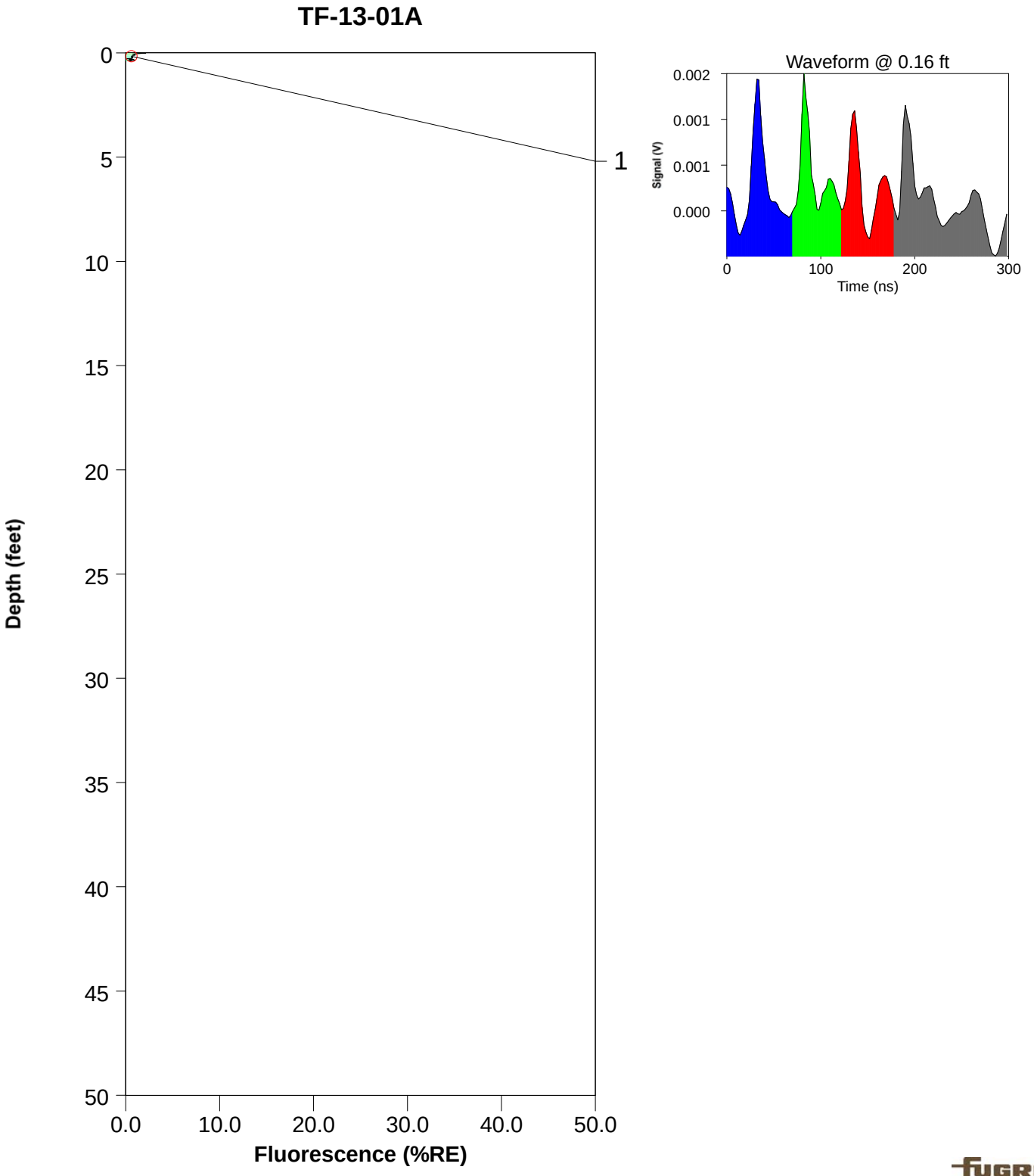
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 10:01:24 AM	Max fluorescence: 1.70% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 0.32 ft



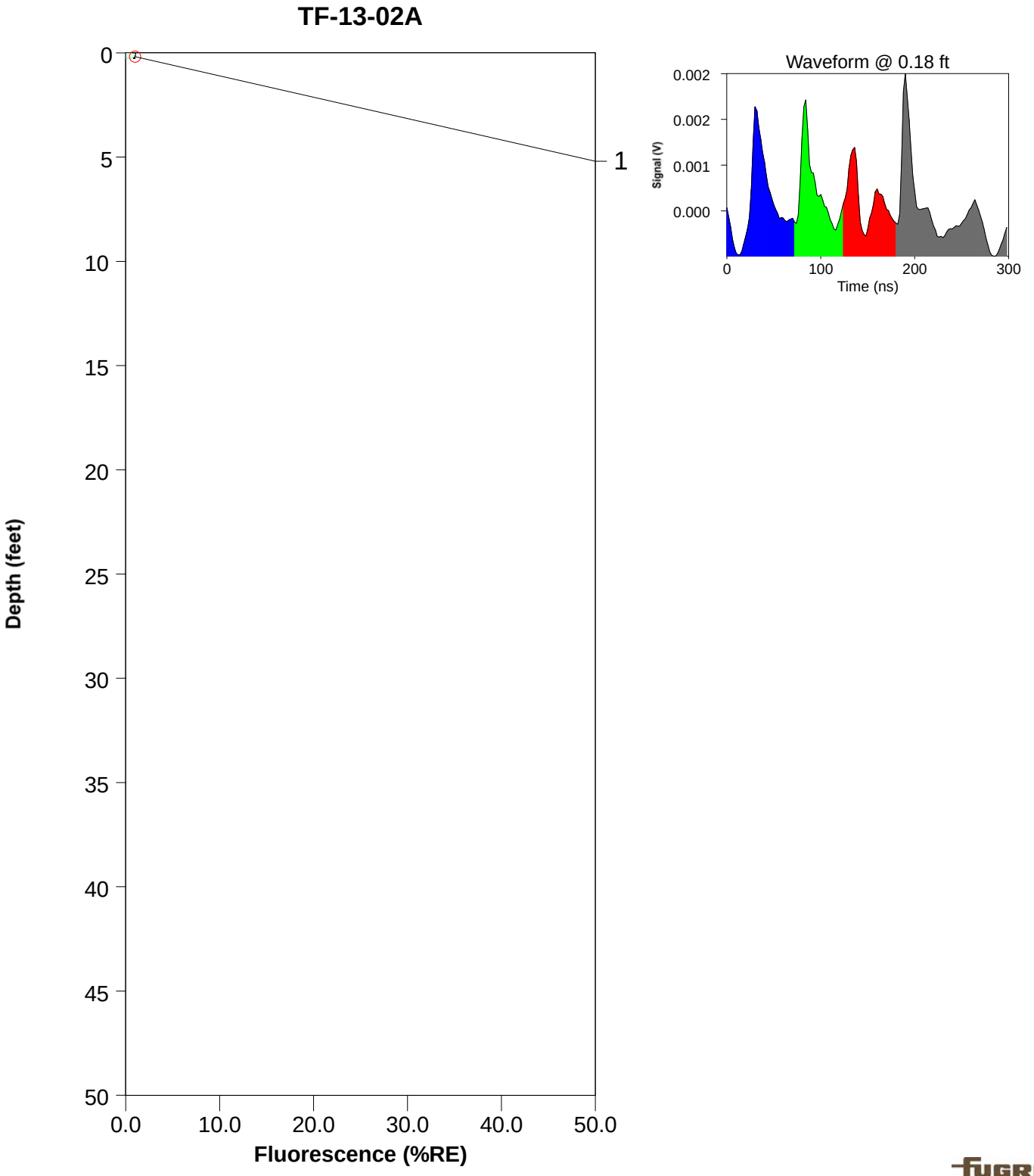
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 10:11:55 AM	Max fluorescence: 2.14% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 0.37 ft



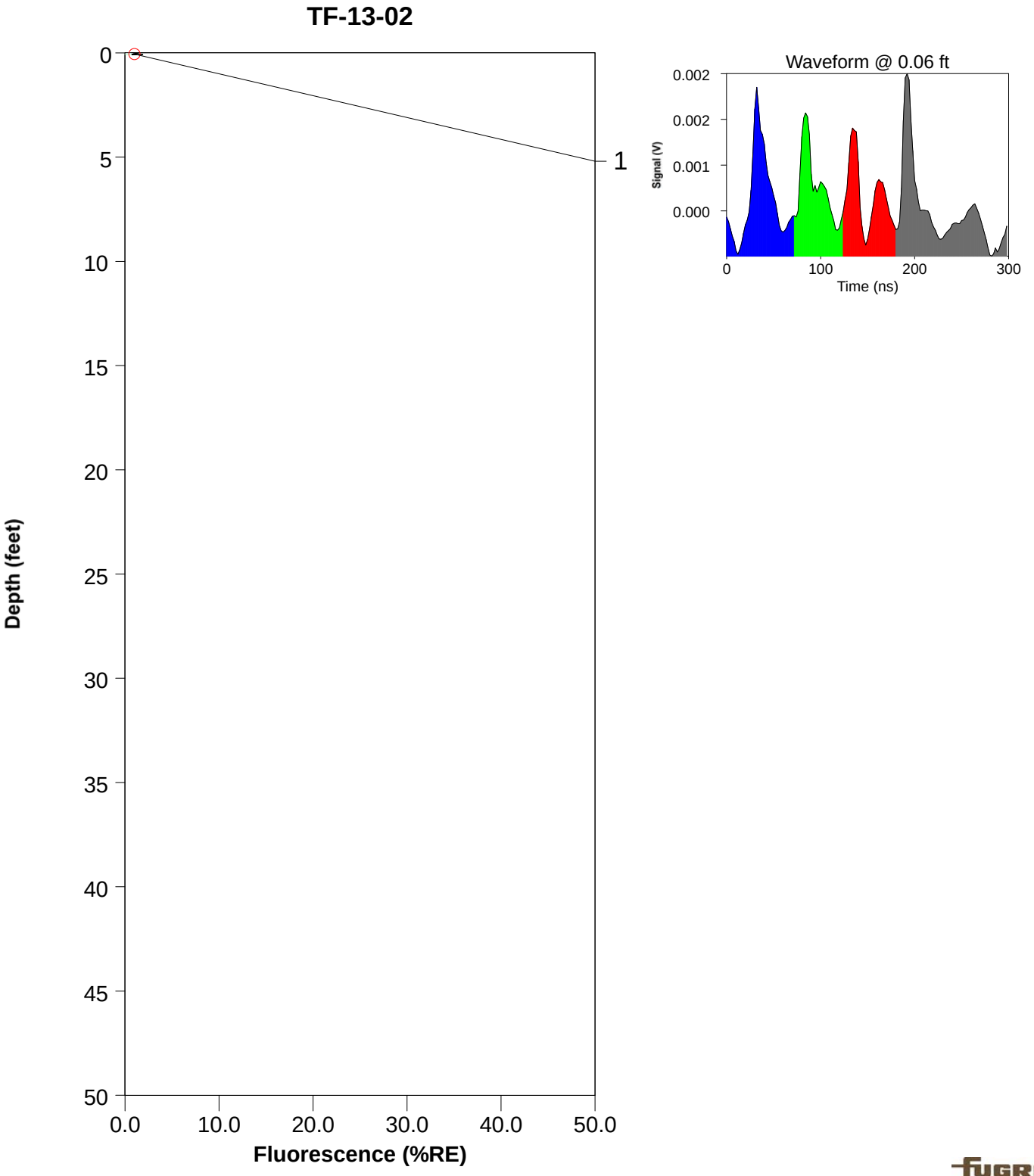
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 10:41:17 AM	Max fluorescence: 1.07% @ 0.02 ft
ROST Unit: ?	Final depth BGS: 0.27 ft



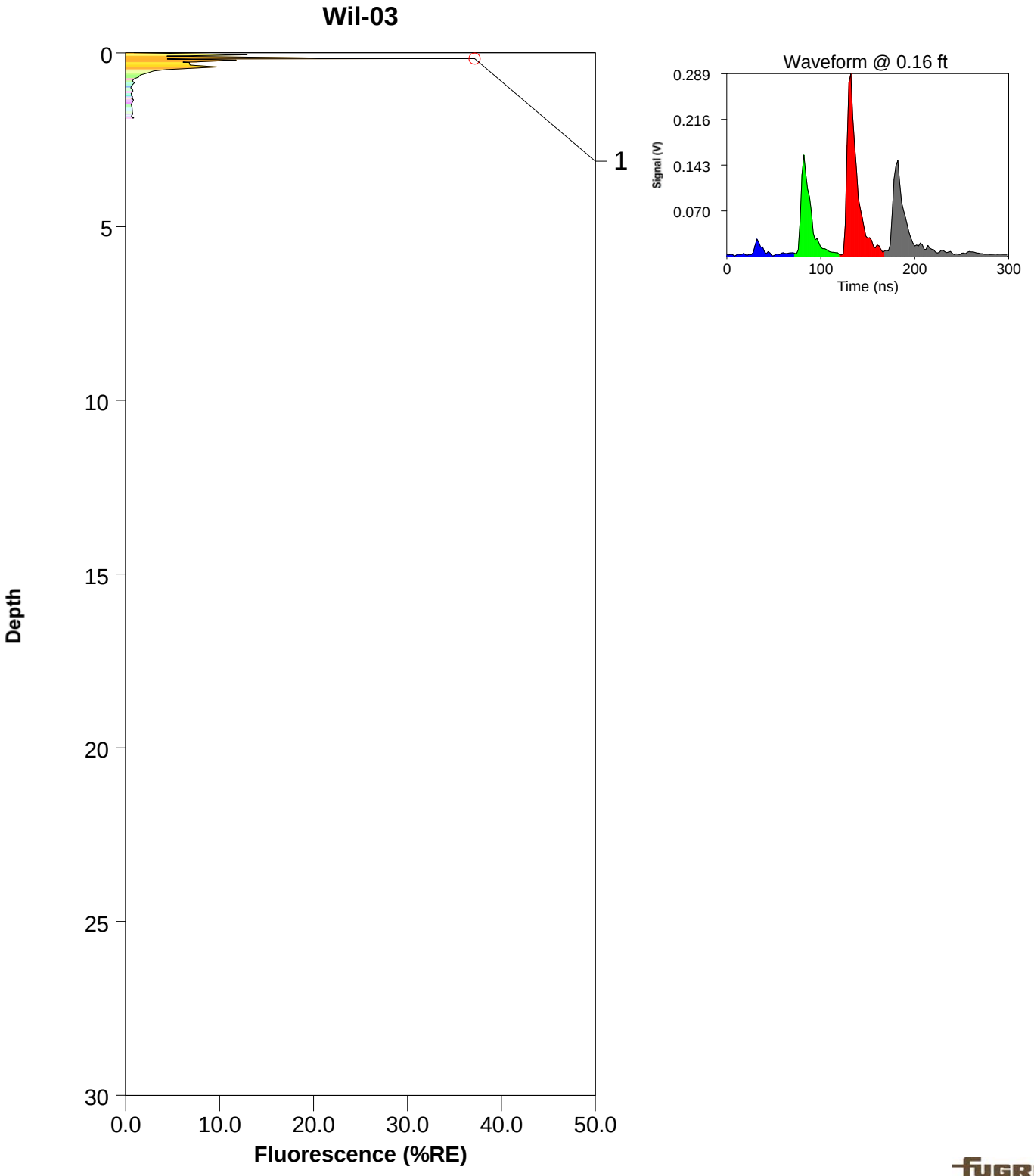
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/8/2015 @ 10:23:58 AM	Max fluorescence: 1.90% @ 0.08 ft
ROST Unit: ?	Final depth BGS: 0.10 ft



ROST Fluorescence Response Data

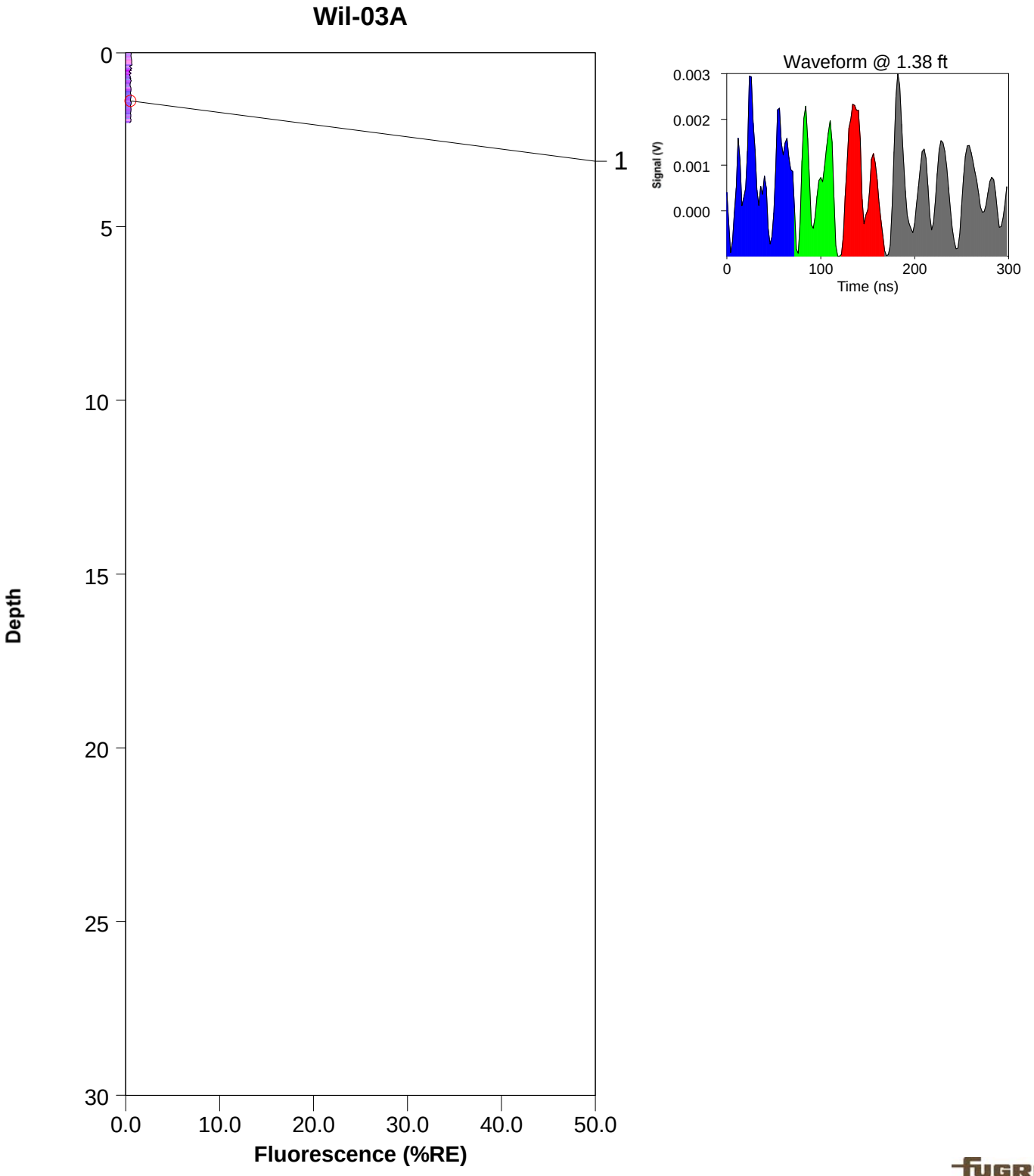
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 11:23:10 AM	Max fluorescence: 37.14% @ 0.16 ft
ROST Unit: ?	Final depth BGS: 1.88 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

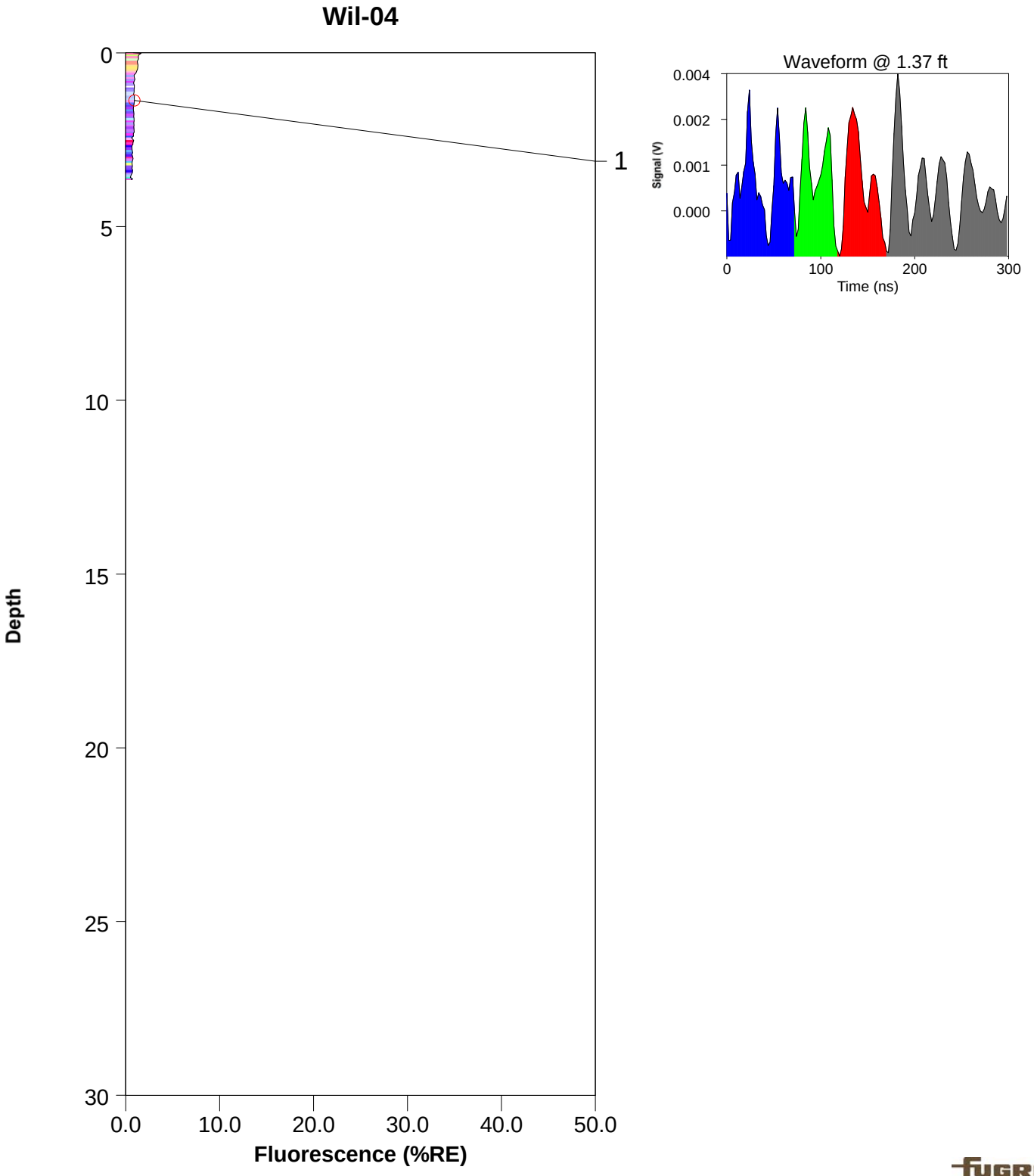
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 11:45:54 AM	Max fluorescence: 0.68% @ 0.35 ft
ROST Unit: ?	Final depth BGS: 2.01 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

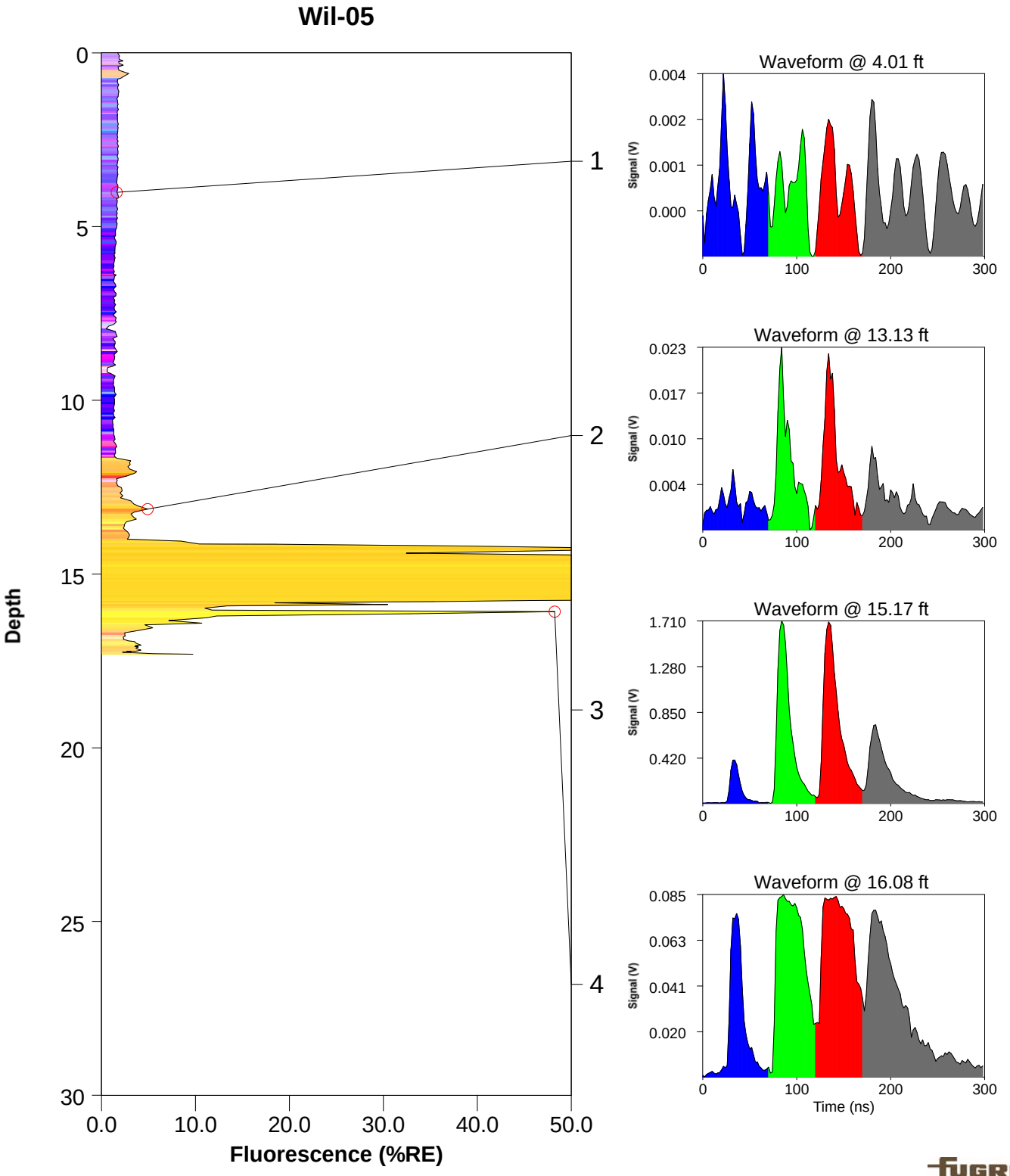
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 12:24:23 PM	Max fluorescence: 1.64% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 3.65 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

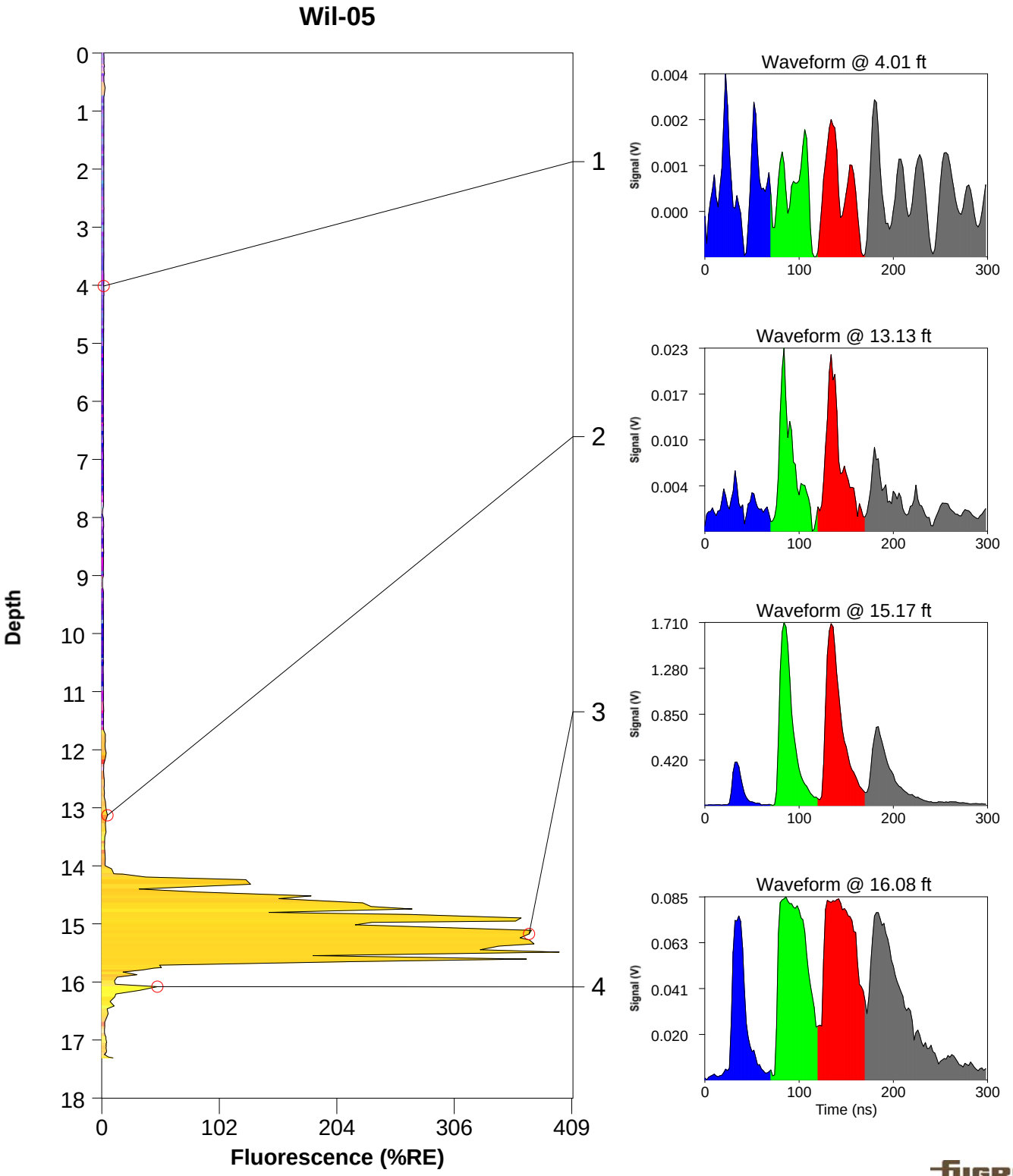
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 12:45:43 PM	Max fluorescence: 397.65% @ 15.48 ft
ROST Unit: ?	Final depth BGS: 17.31 ft



ROST Fluorescence Response Data

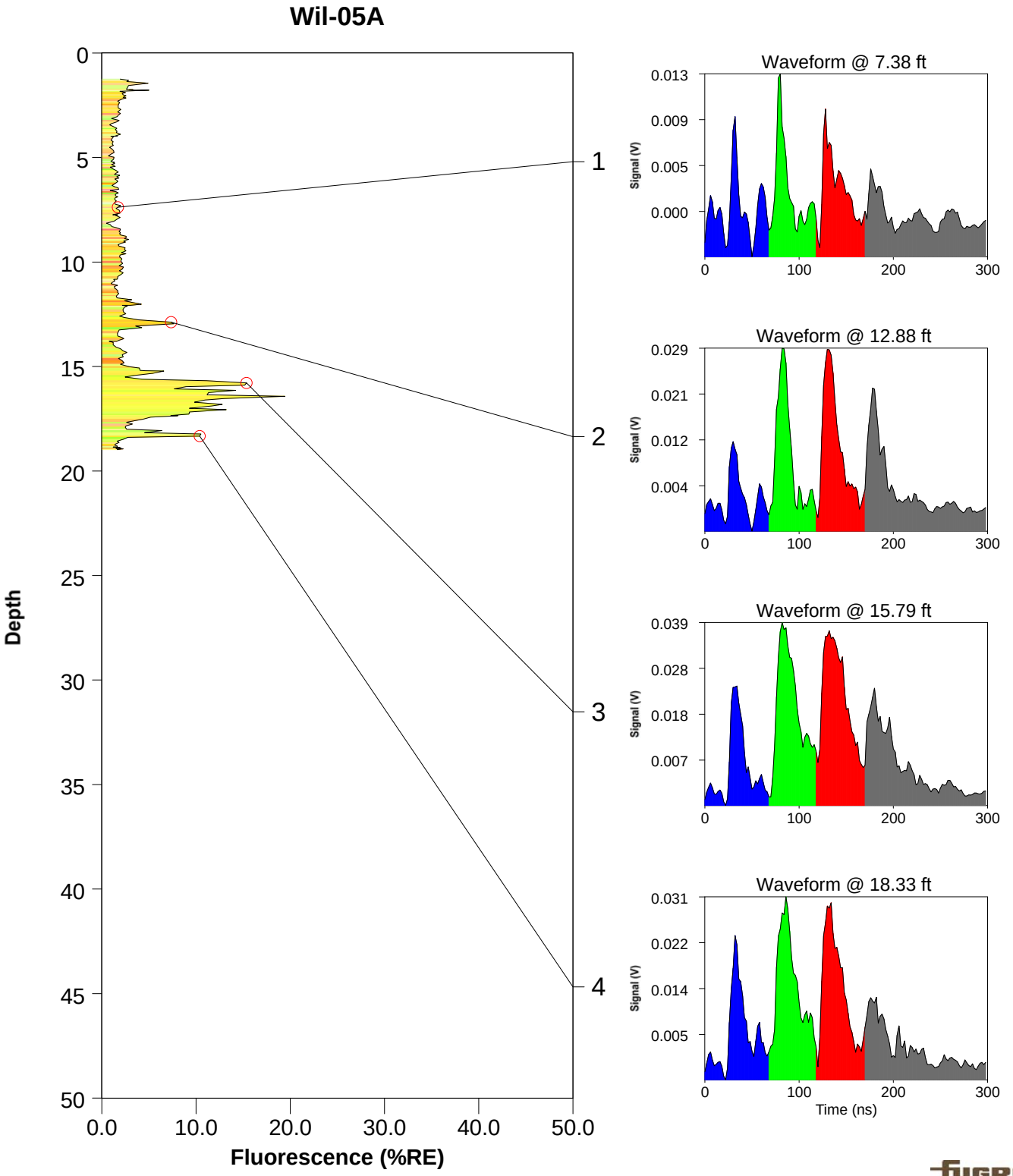
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 12:45:43 PM	Max fluorescence: 397.65% @ 15.48 ft
ROST Unit: ?	Final depth BGS: 17.31 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

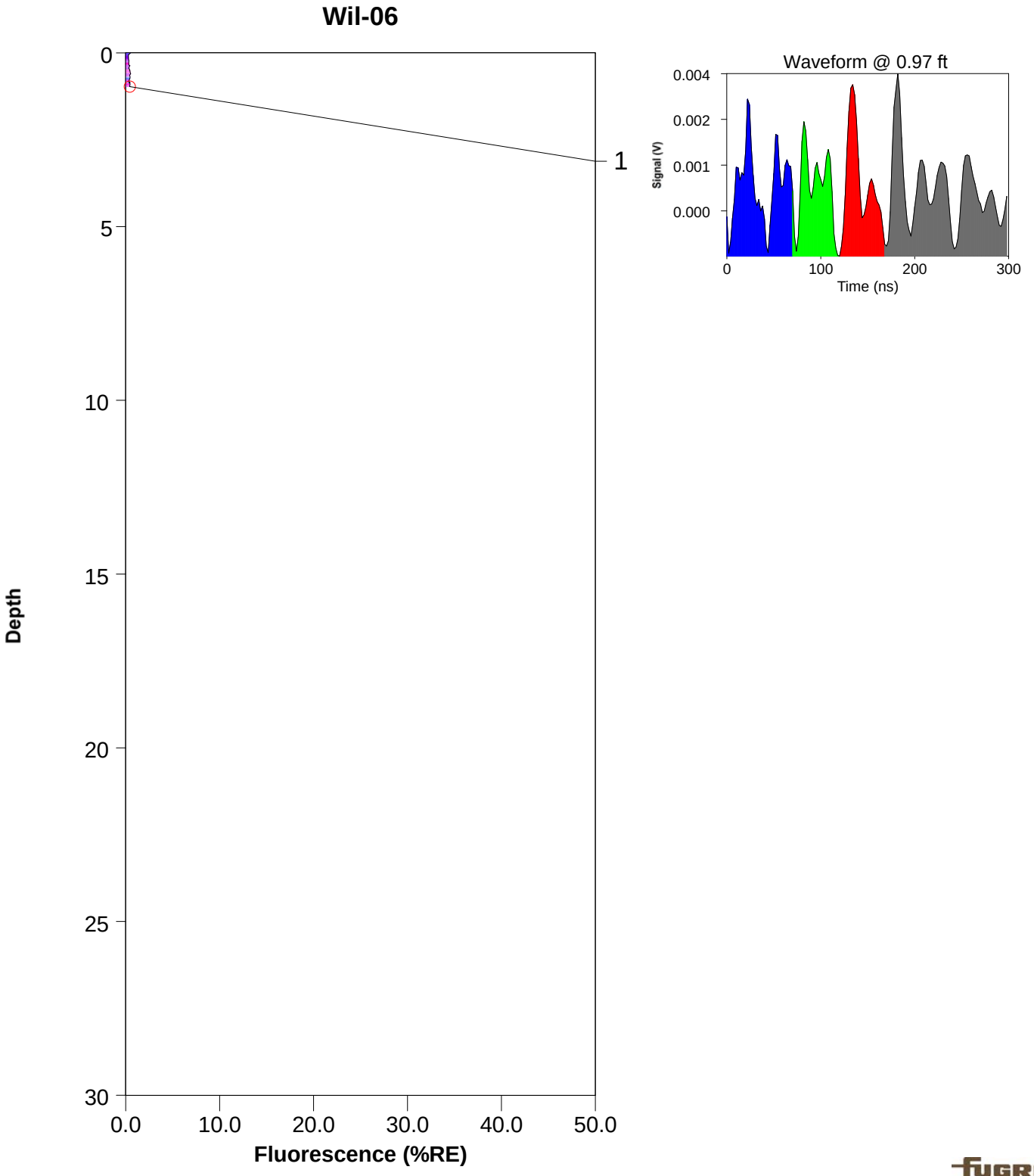
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 10:31:21 AM	Max fluorescence: 19.42% @ 16.43 ft
ROST Unit: ?	Final depth BGS: 18.97 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

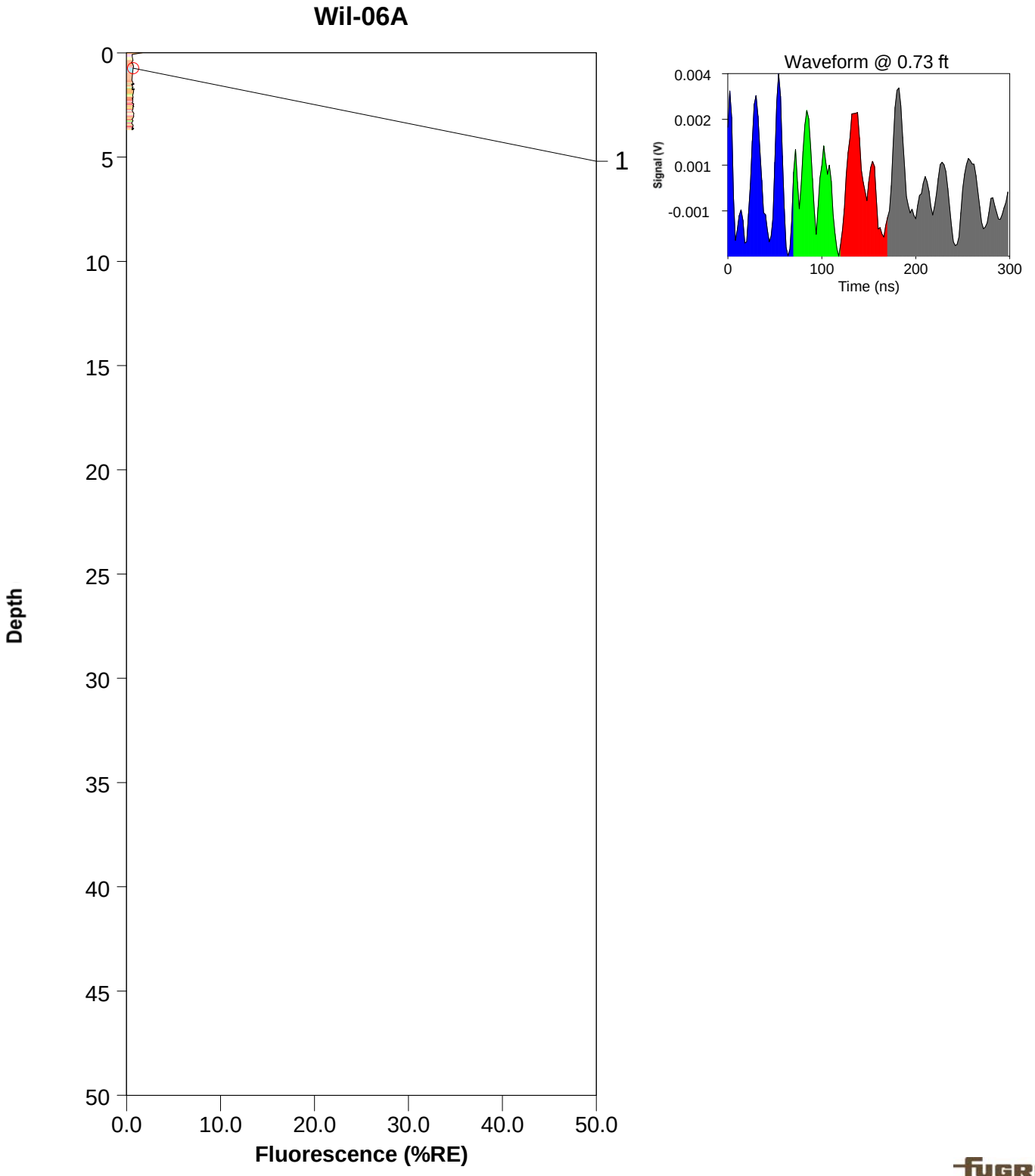
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 1:21:00 PM	Max fluorescence: 0.53% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 0.97 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

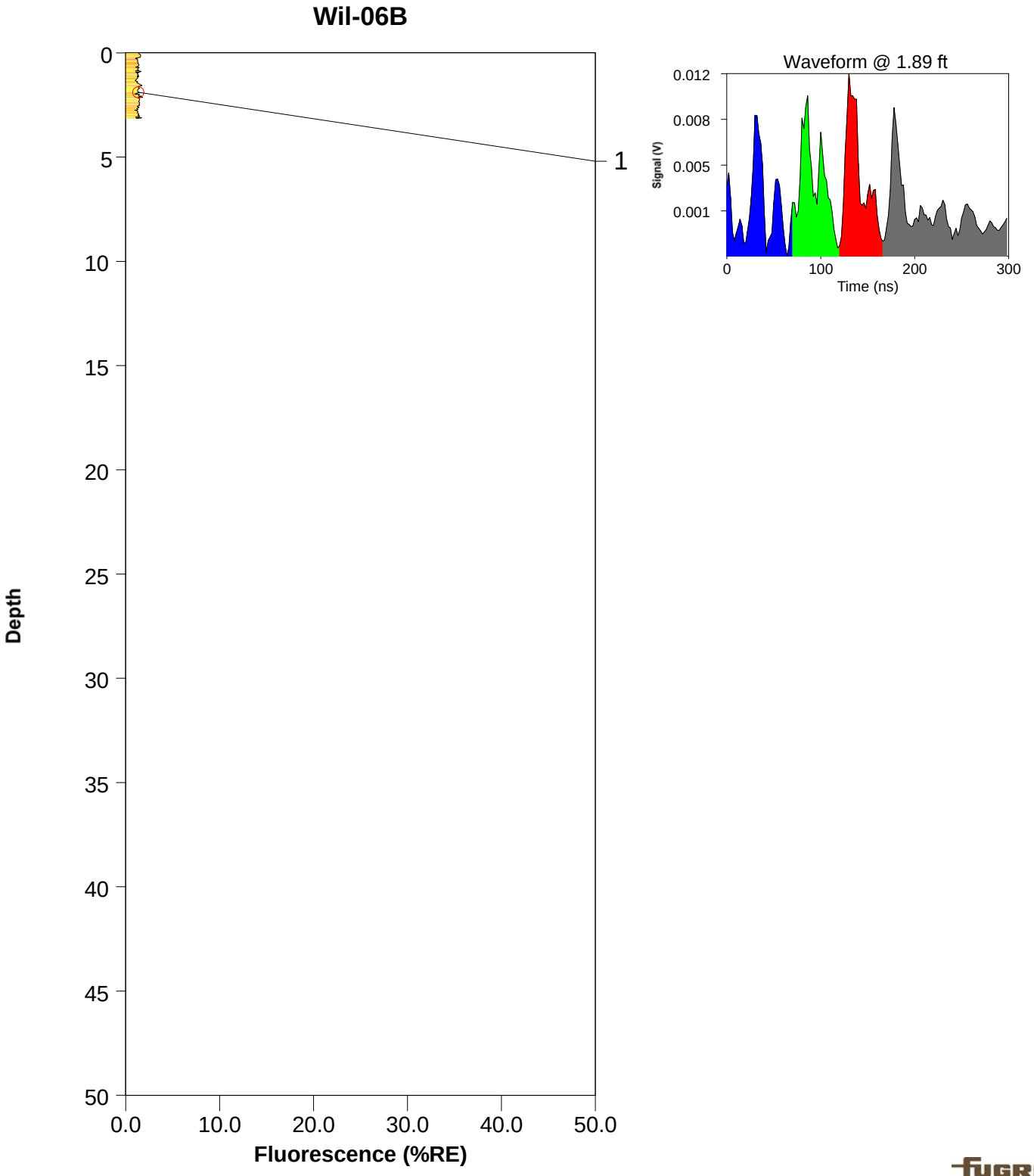
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 11:09:54 AM	Max fluorescence: 1.70% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 3.68 ft



ROST Fluorescence Response Data

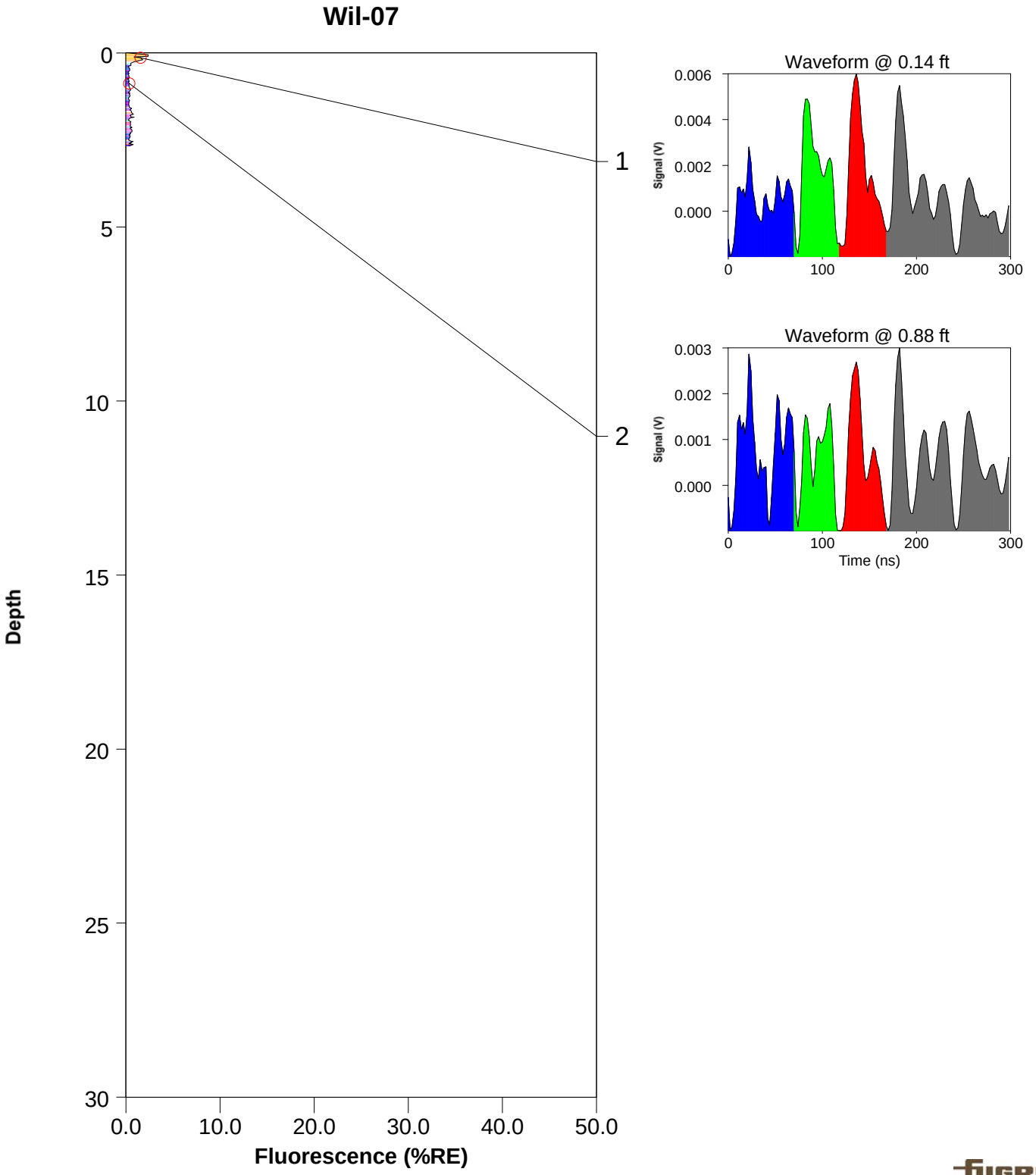
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 11:29:07 AM	Max fluorescence: 1.80% @ 2.14 ft
ROST Unit: ?	Final depth BGS: 3.15 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

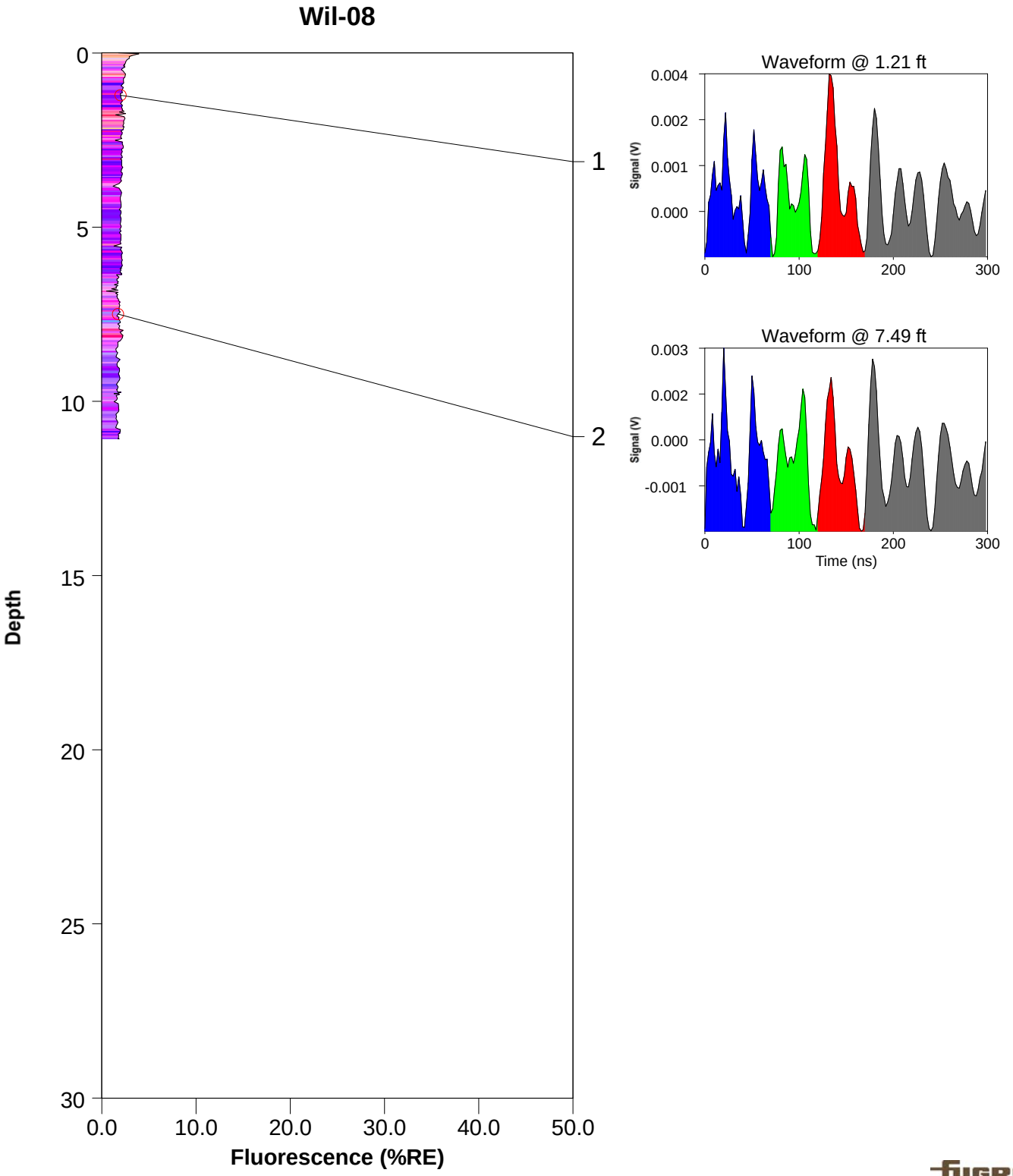
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 2:01:07 PM	Max fluorescence: 2.37% @ 0.05 ft
ROST Unit: ?	Final depth BGS: 2.66 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

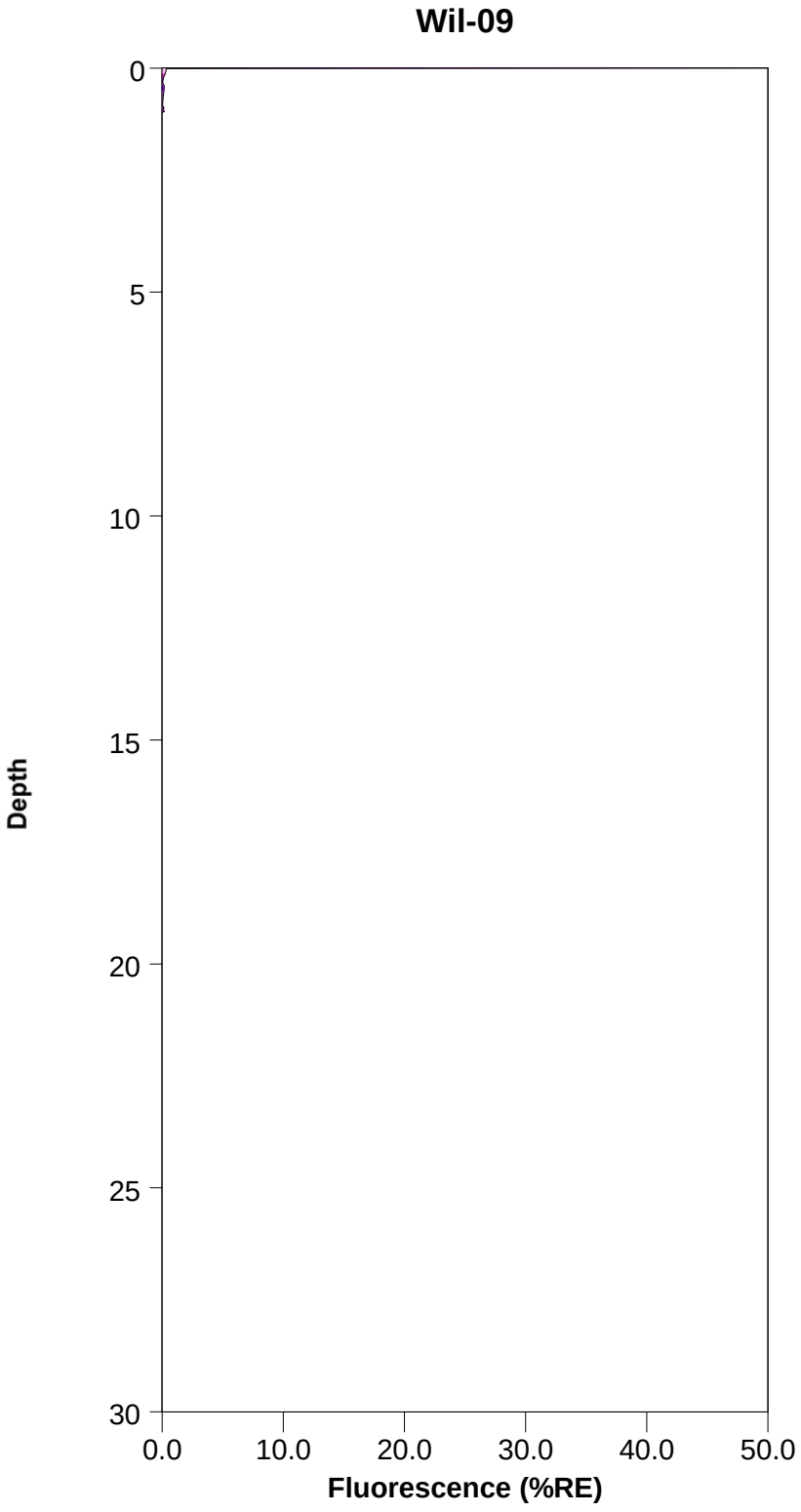
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 2:35:44 PM	Max fluorescence: 3.94% @ 0.02 ft
ROST Unit: ?	Final depth BGS: 11.08 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

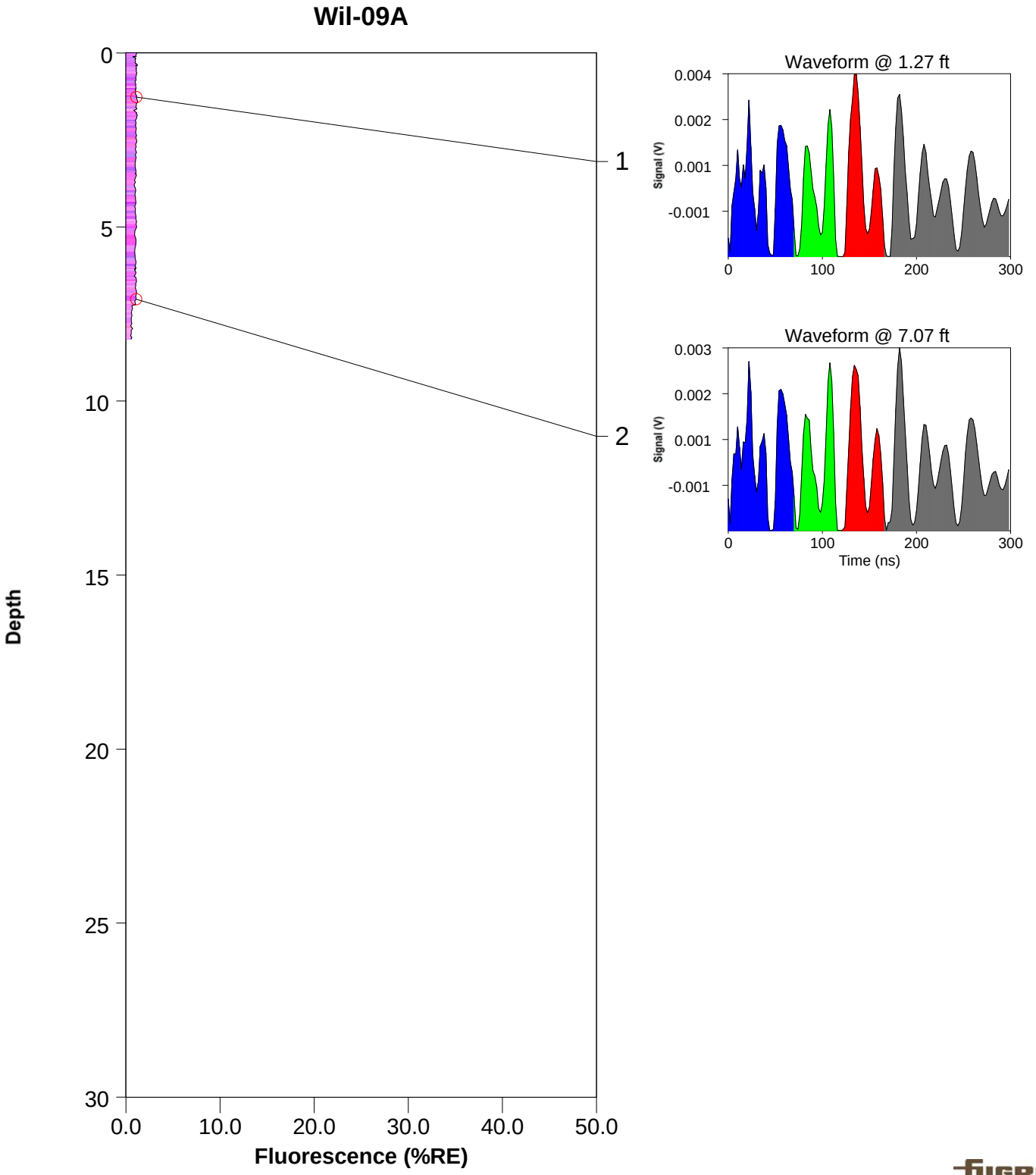
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 3:12:20 PM	Max fluorescence: 93.46% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 0.99 ft



ROST Fluorescence Response Data

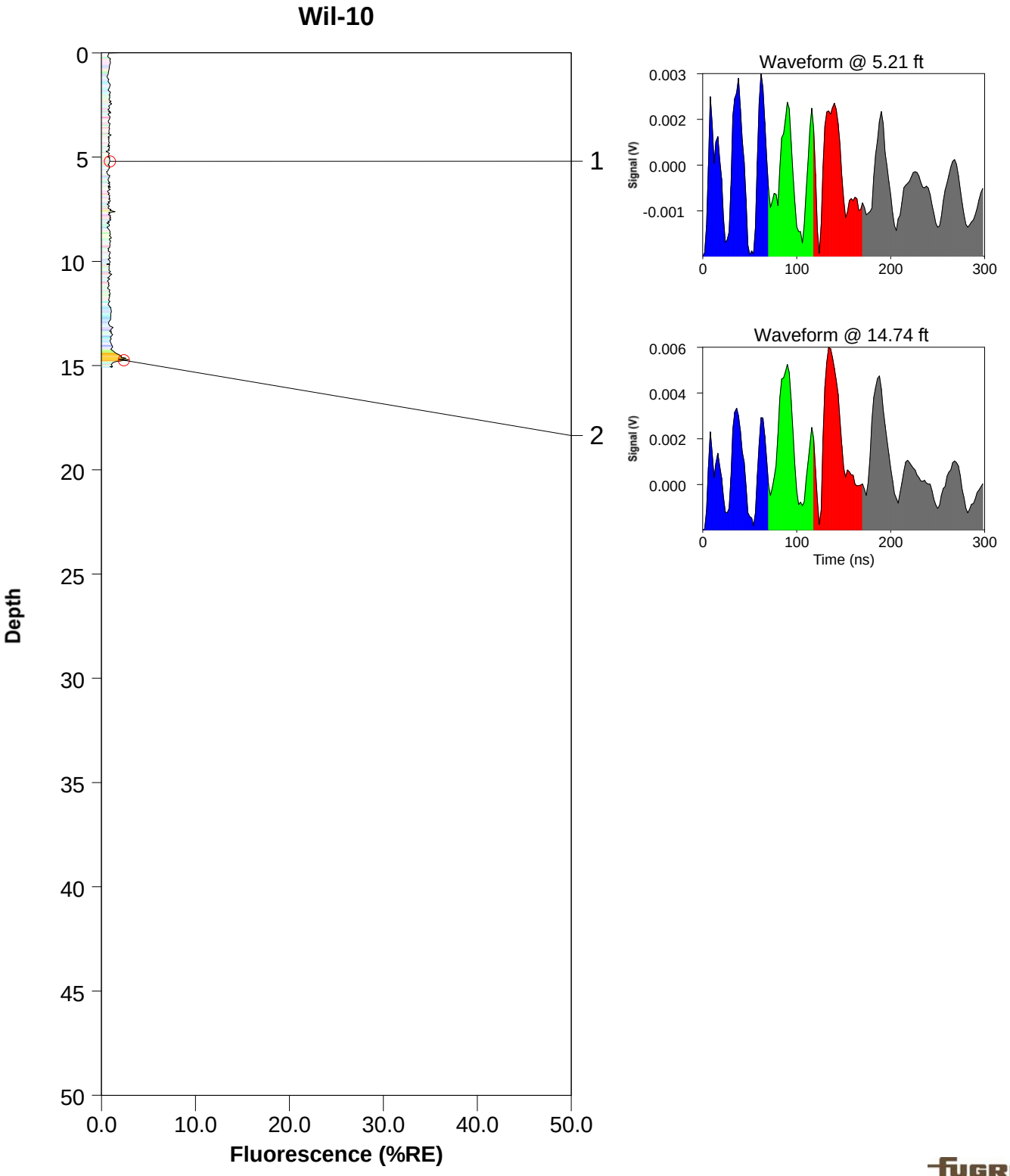
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 3:20:17 PM	Max fluorescence: 1.25% @ 1.41 ft
ROST Unit: ?	Final depth BGS: 8.22 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

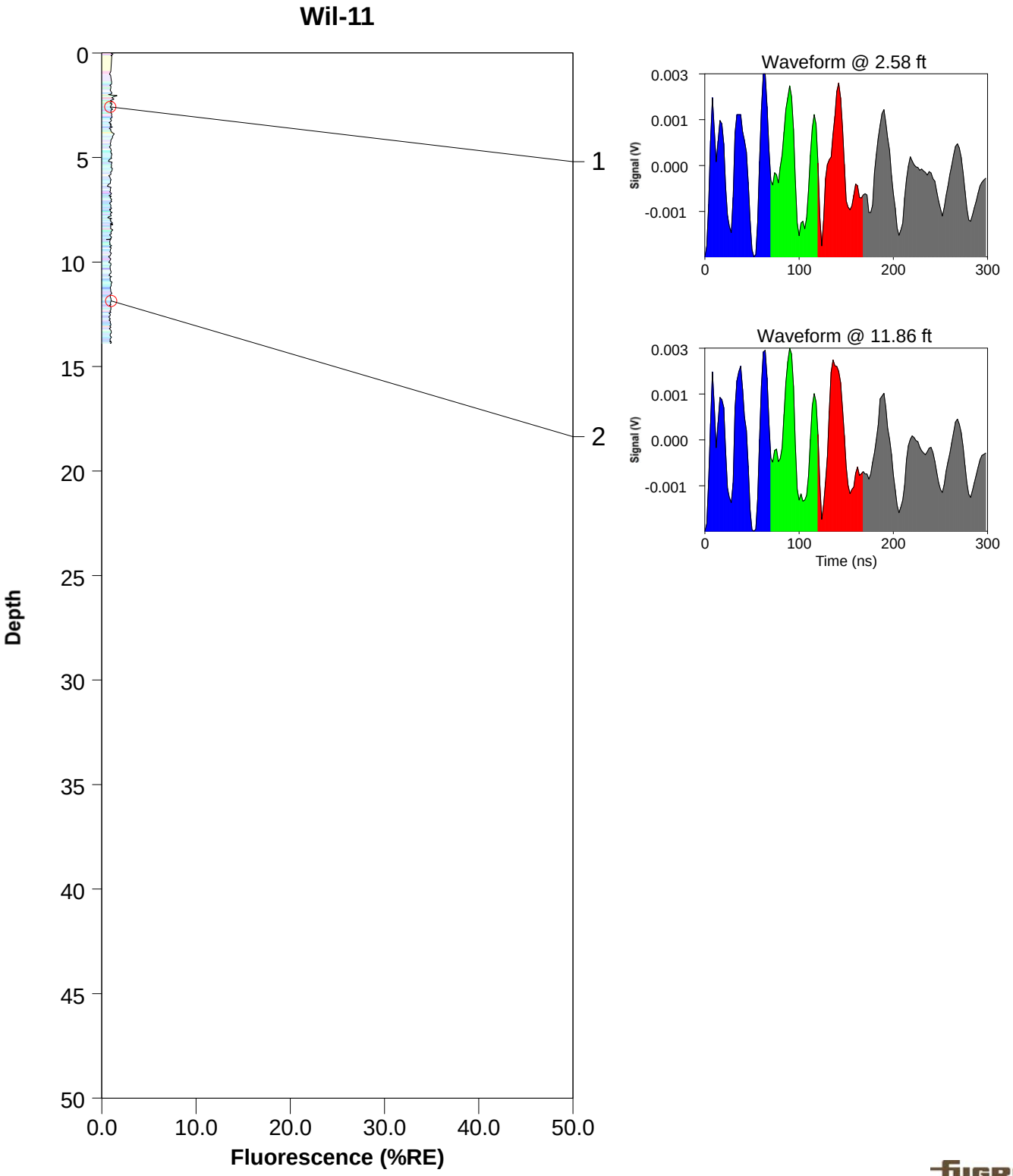
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 1:54:50 PM	Max fluorescence: 2.88% @ 14.72 ft
ROST Unit: ?	Final depth BGS: 15.08 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

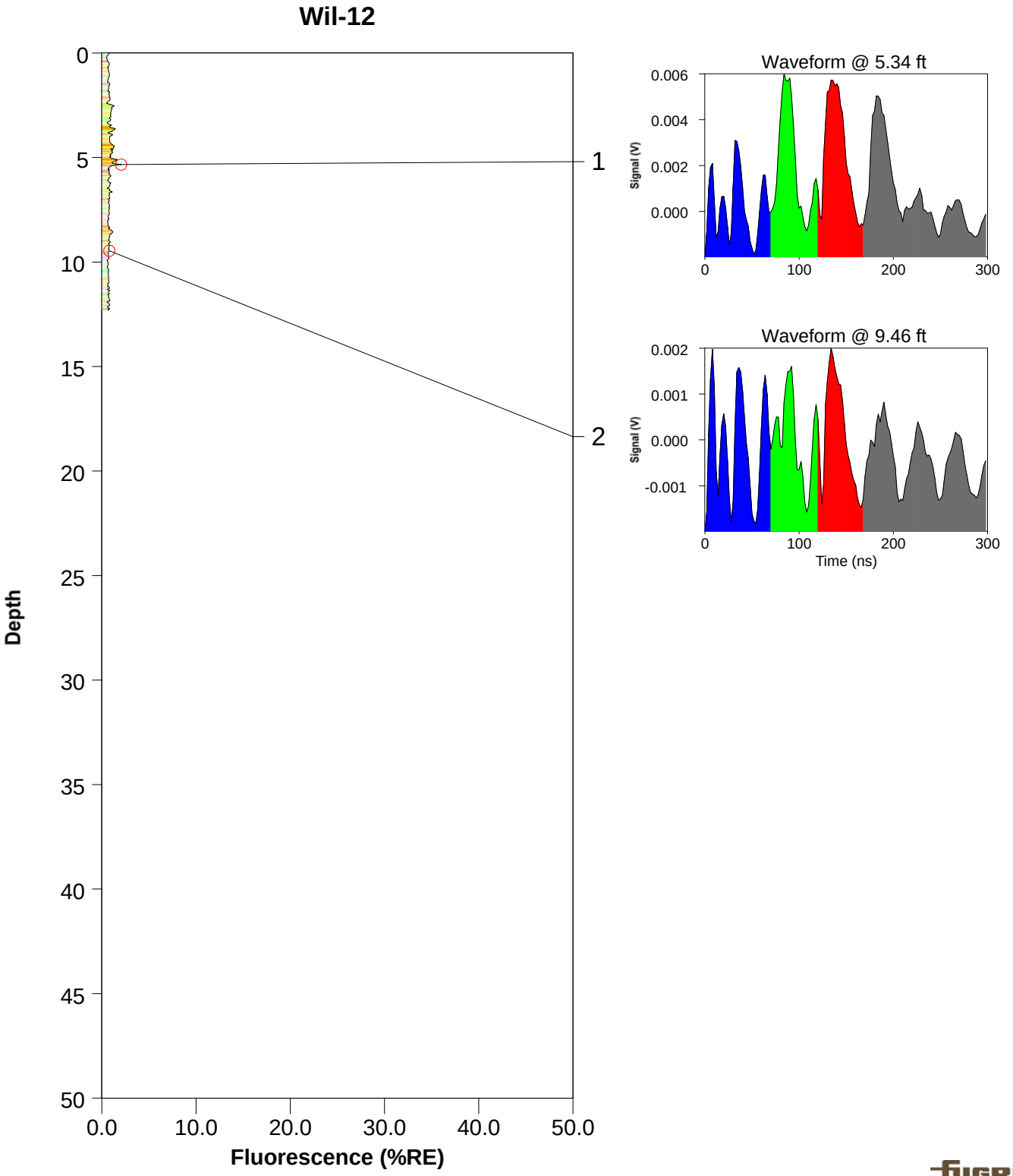
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 2:17:27 PM	Max fluorescence: 1.61% @ 2.04 ft
ROST Unit: ?	Final depth BGS: 13.89 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

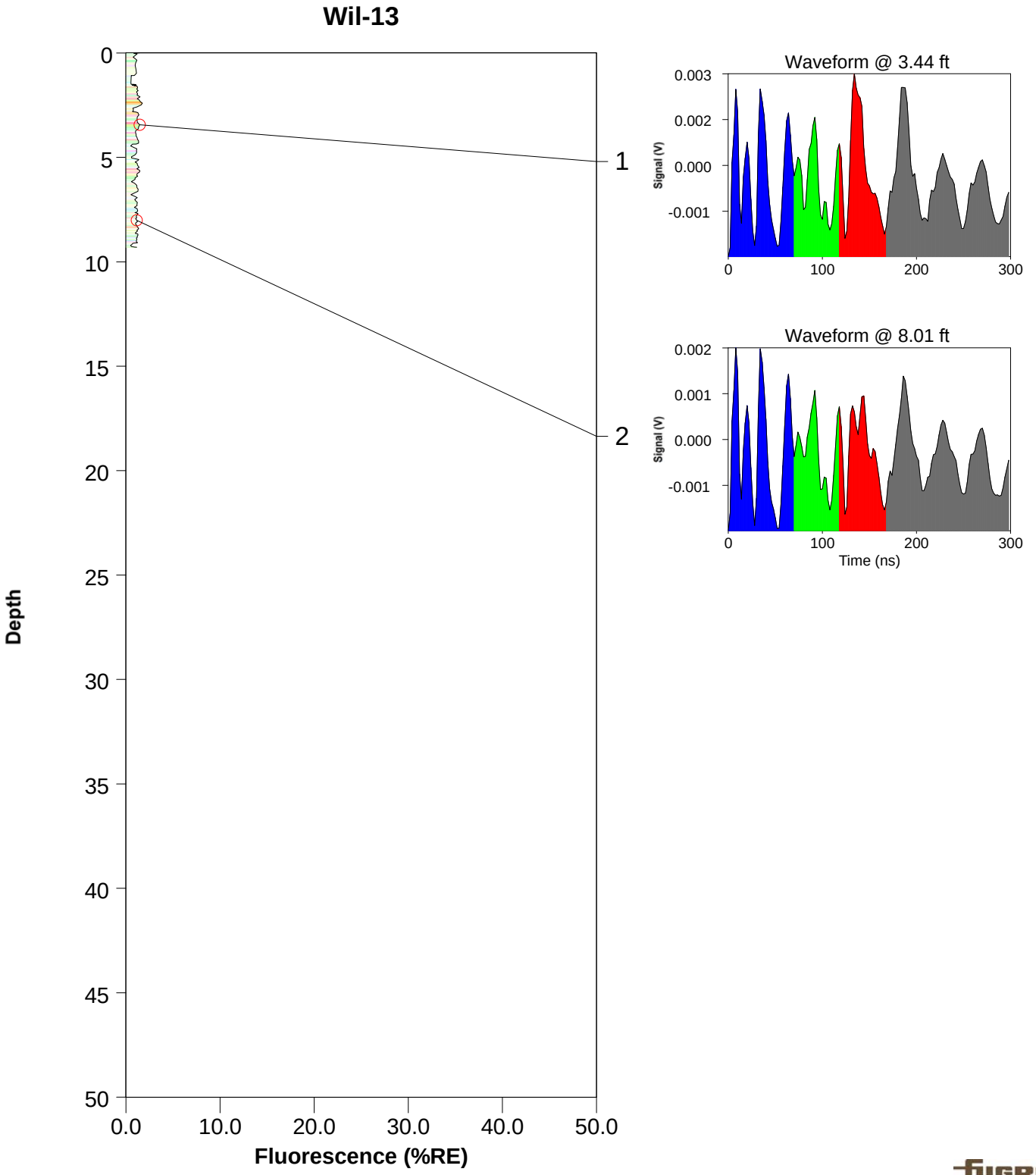
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 2:44:33 PM	Max fluorescence: 2.05% @ 5.34 ft
ROST Unit: ?	Final depth BGS: 12.29 ft



ROST Fluorescence Response Data

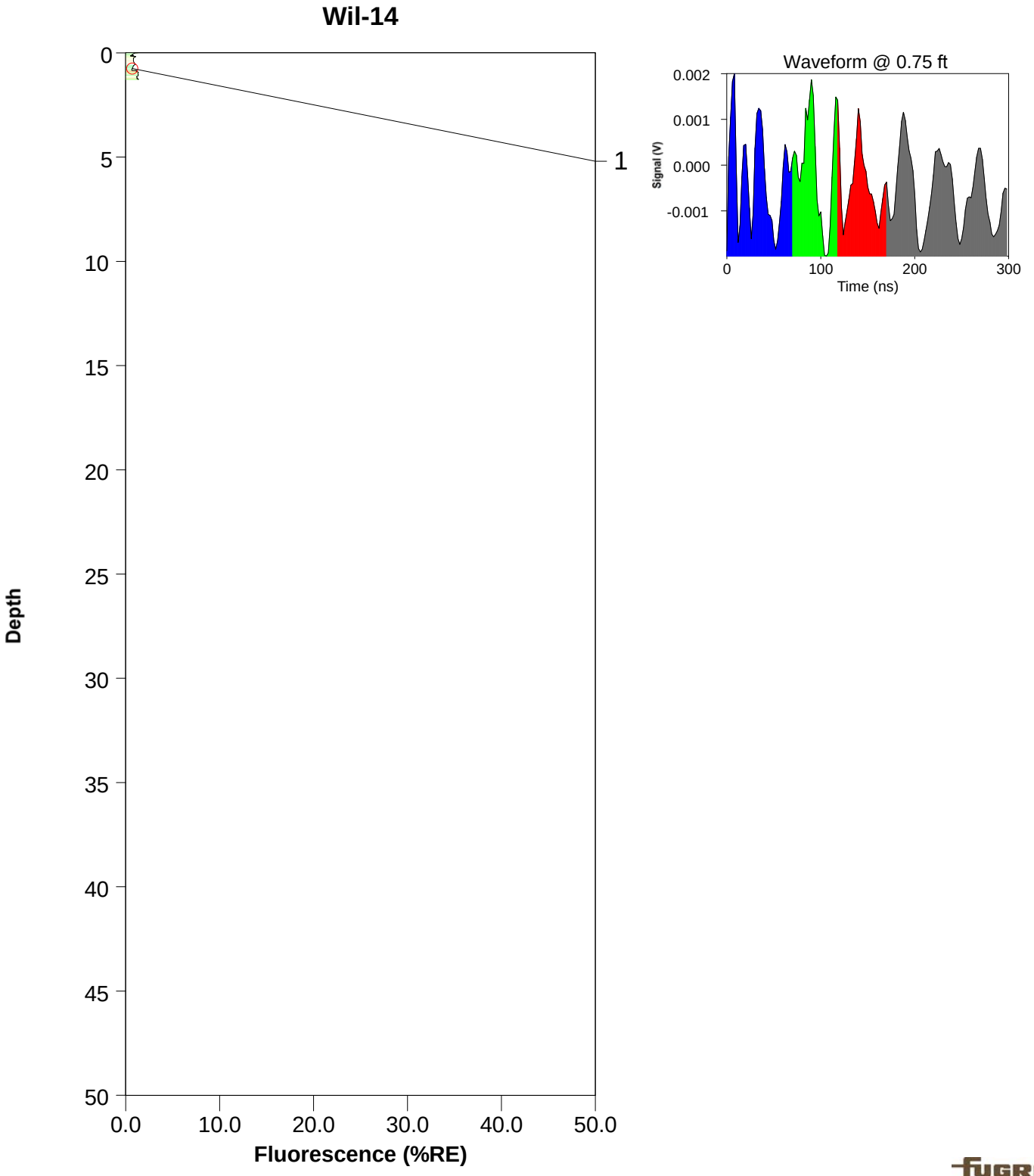
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 3:02:30 PM	Max fluorescence: 1.74% @ 2.40 ft
ROST Unit: ?	Final depth BGS: 9.30 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

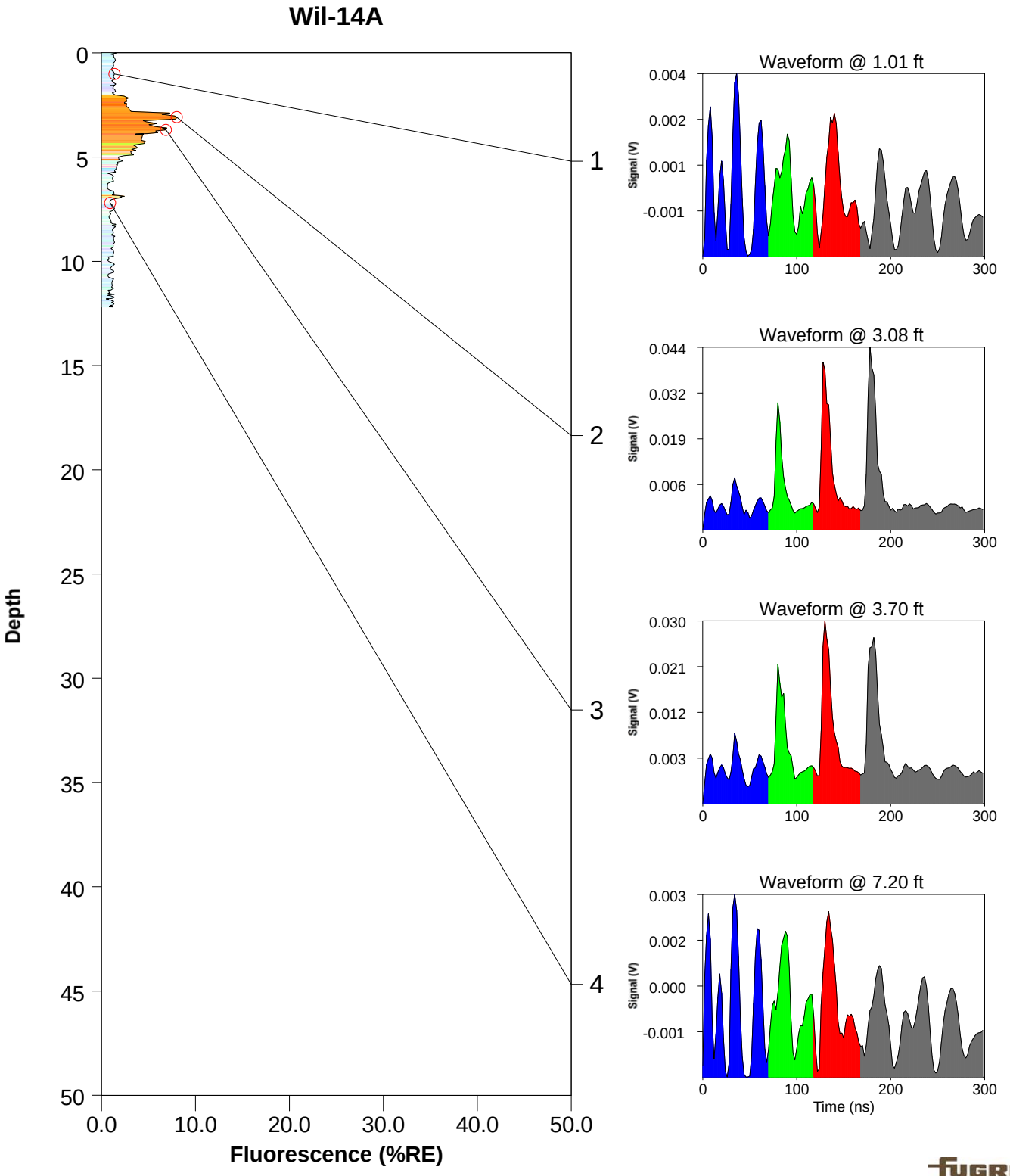
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 3:18:16 PM	Max fluorescence: 1.36% @ 1.27 ft
ROST Unit: ?	Final depth BGS: 1.27 ft



ROST Fluorescence Response Data

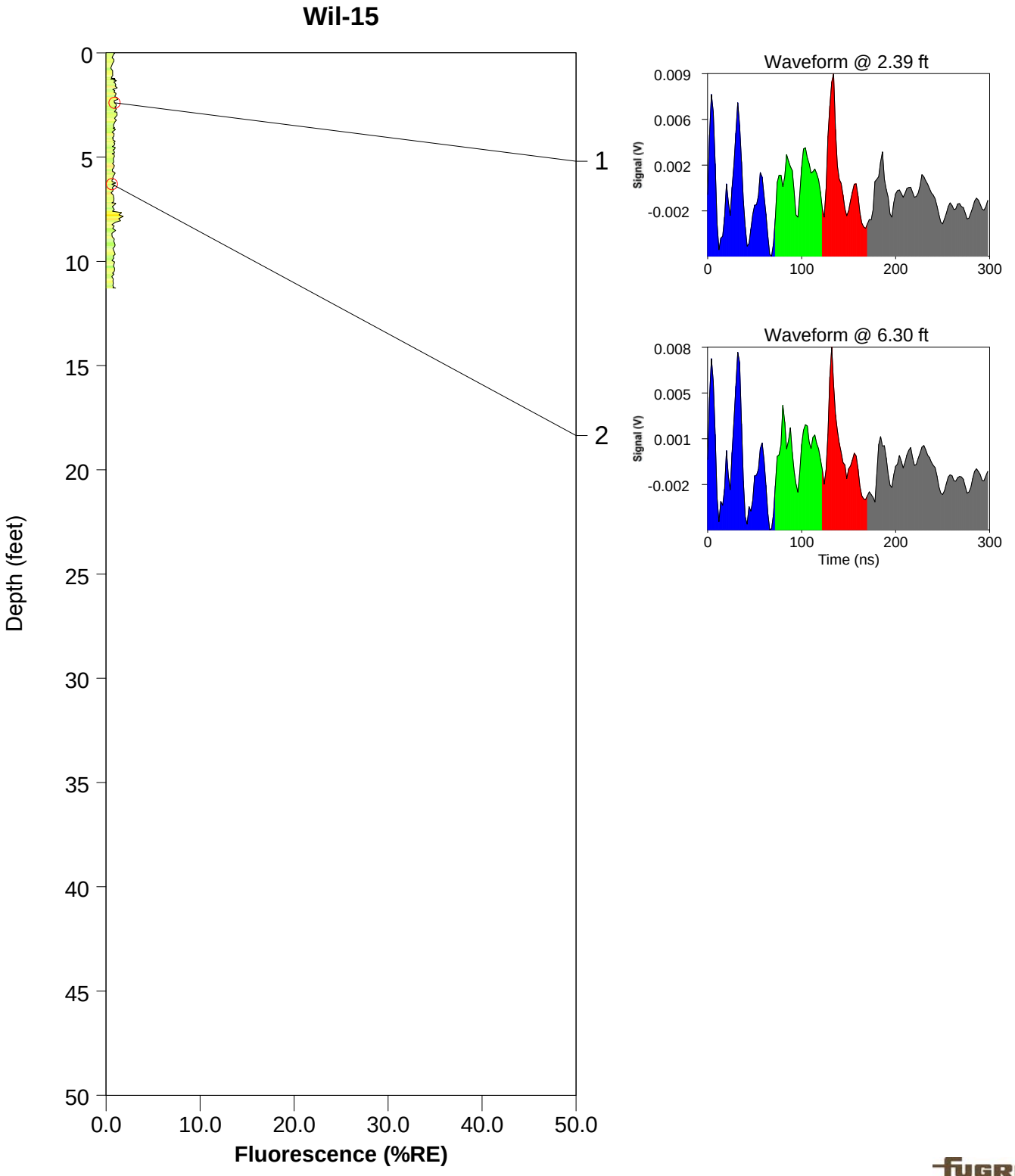
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 3:28:08 PM	Max fluorescence: 8.00% @ 3.08 ft
ROST Unit: ?	Final depth BGS: 12.19 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

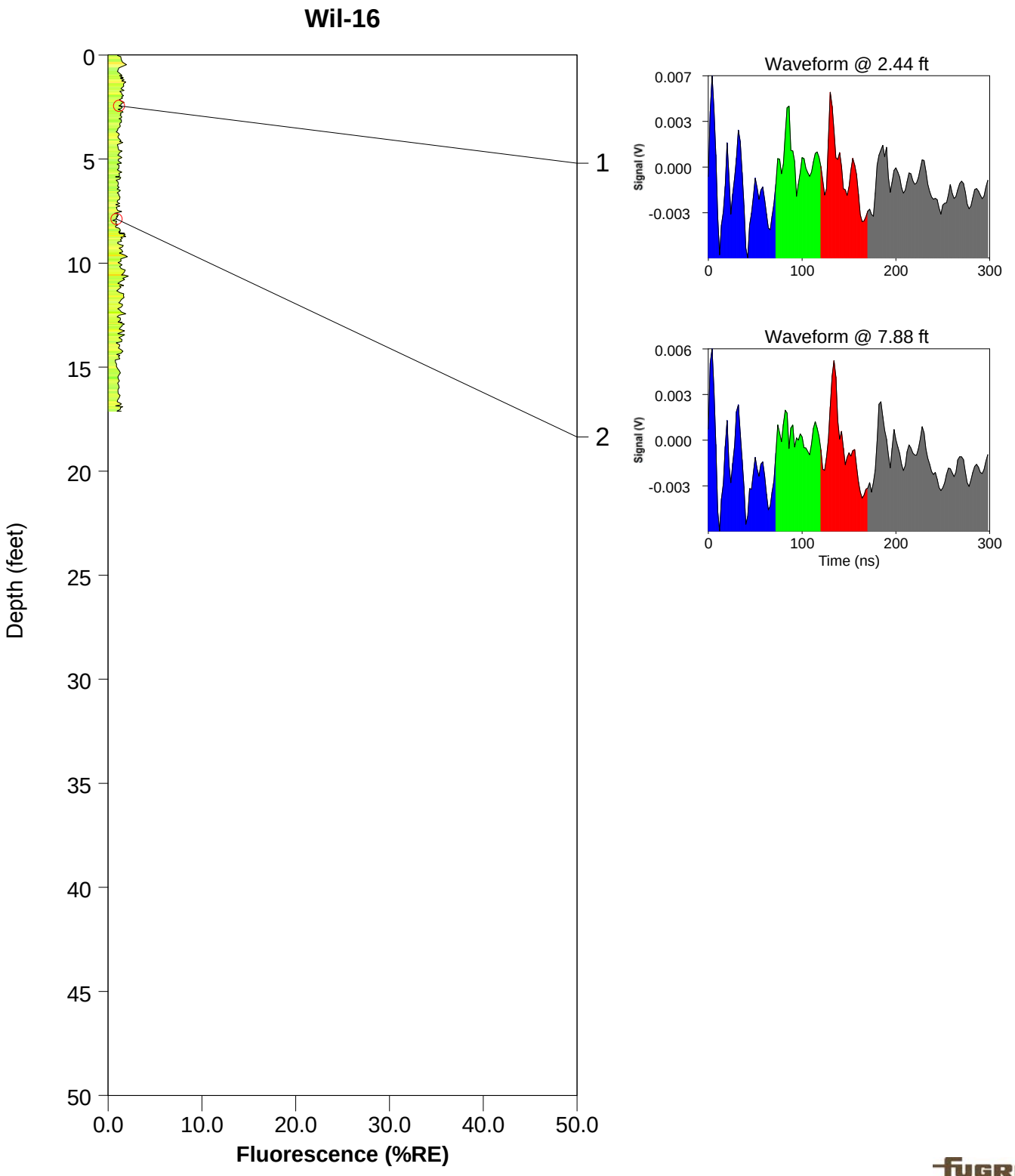
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 10:44:23 AM	Max fluorescence: 1.81% @ 7.85 ft
ROST Unit: ?	Final depth BGS: 11.28 m



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

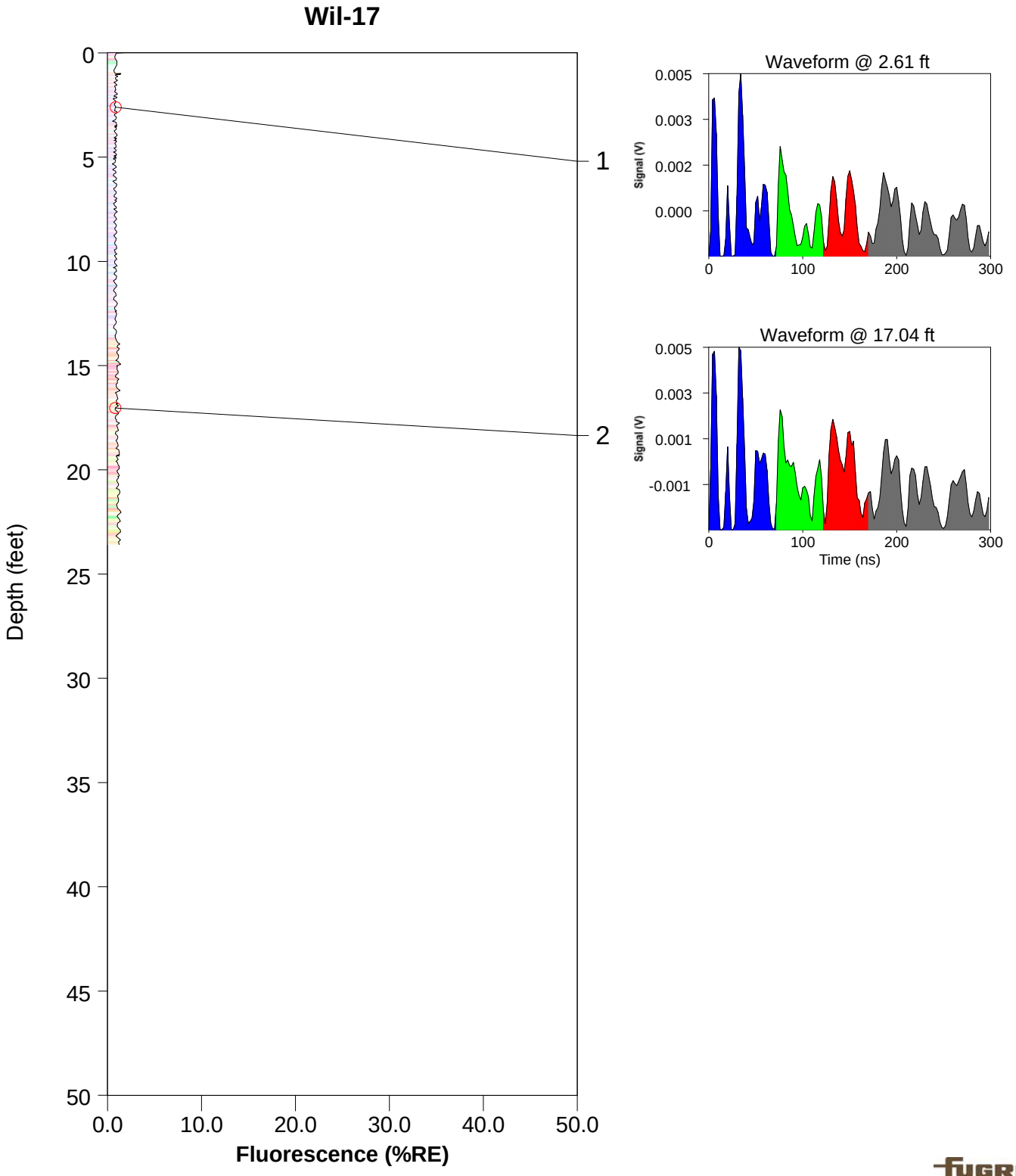
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 10:19:20 AM	Max fluorescence: 2.15% @ 10.63 ft
ROST Unit: ?	Final depth BGS: 17.12 ft



ROST Fluorescence Response Data

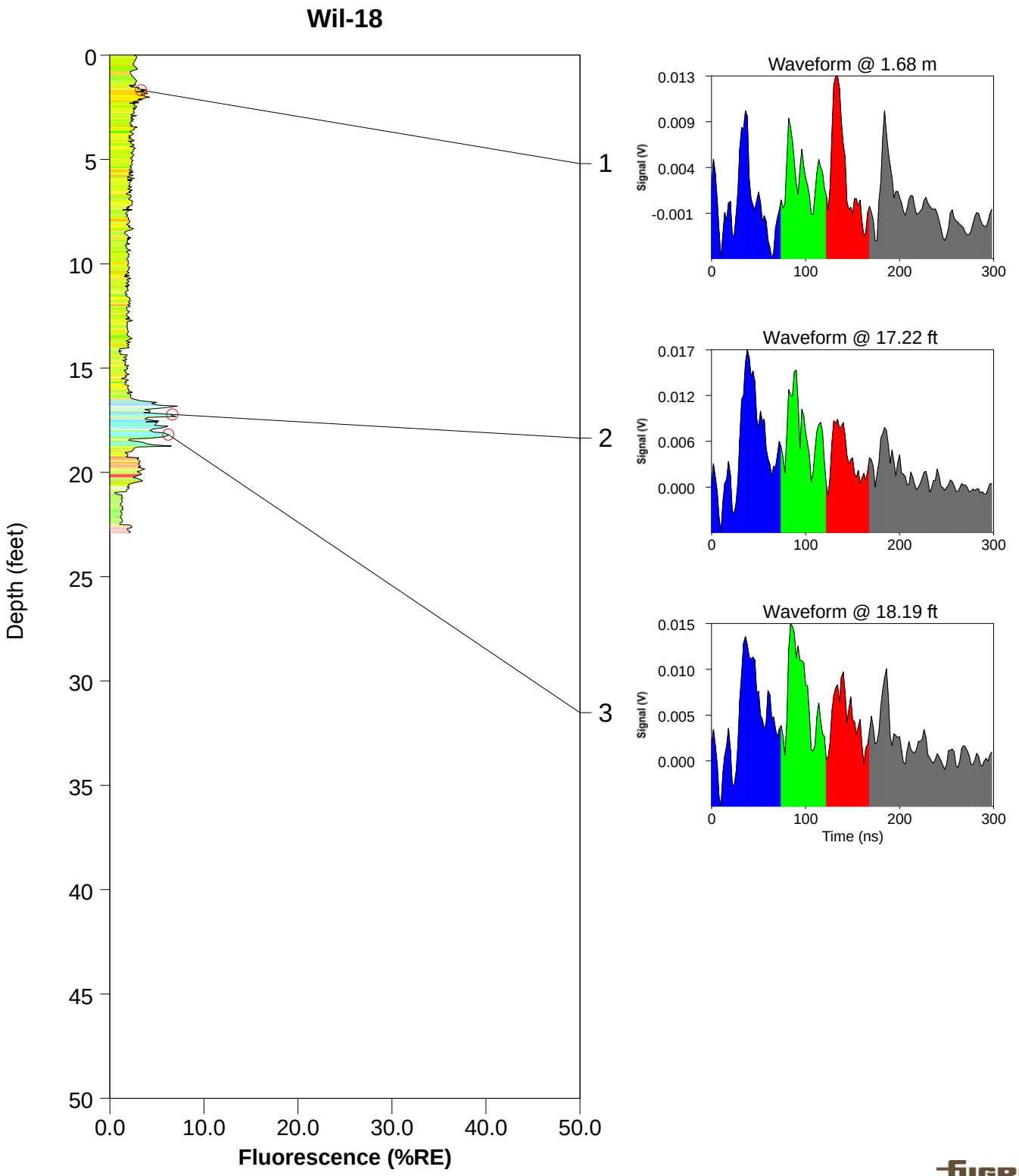
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 9:38:31 AM	Max fluorescence: 1.80% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 23.59 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

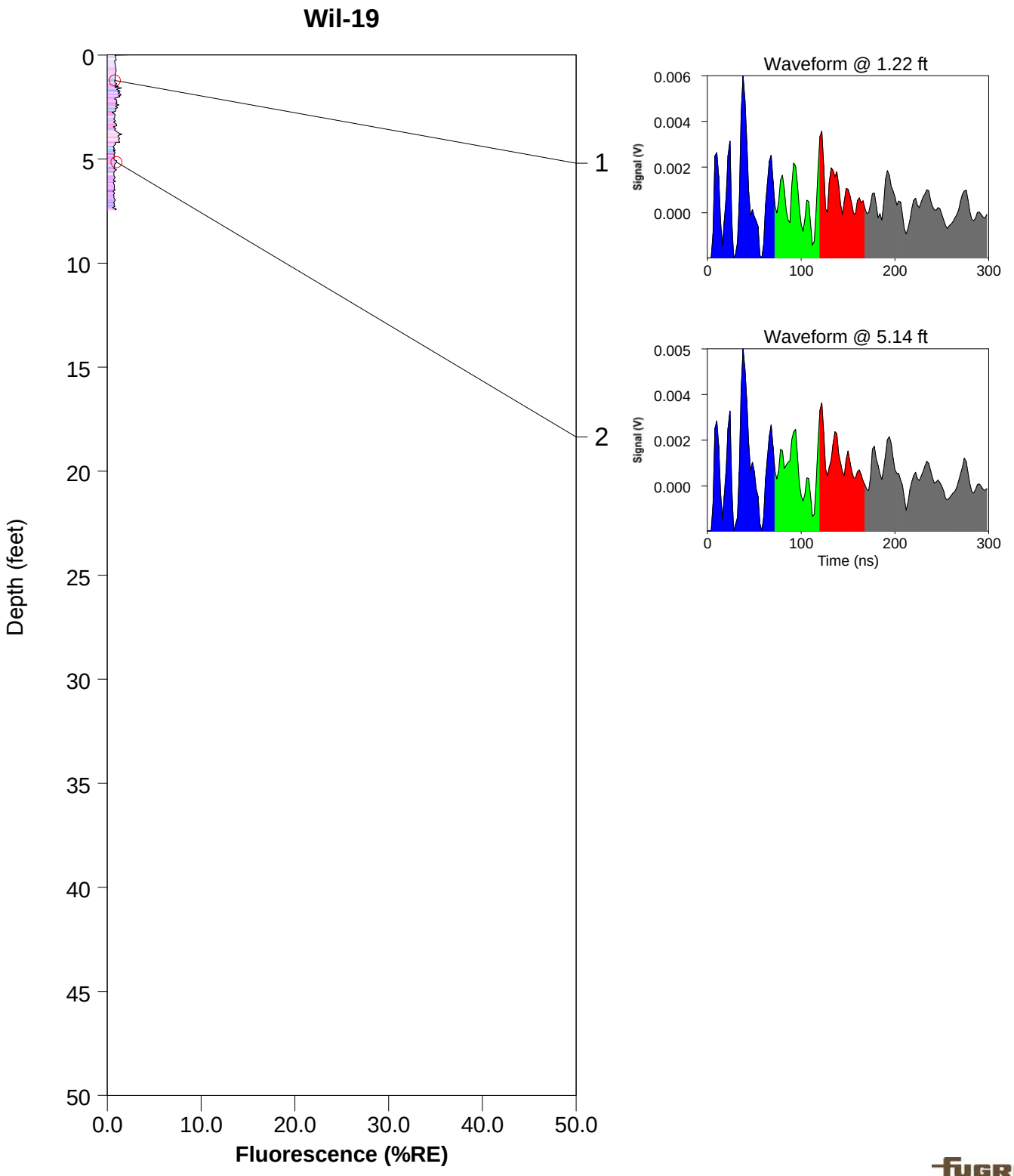
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 8:53:03 AM	Max fluorescence: 7.18% @ 16.83 ft
ROST Unit: ?	Final depth BGS: 22.90 ft



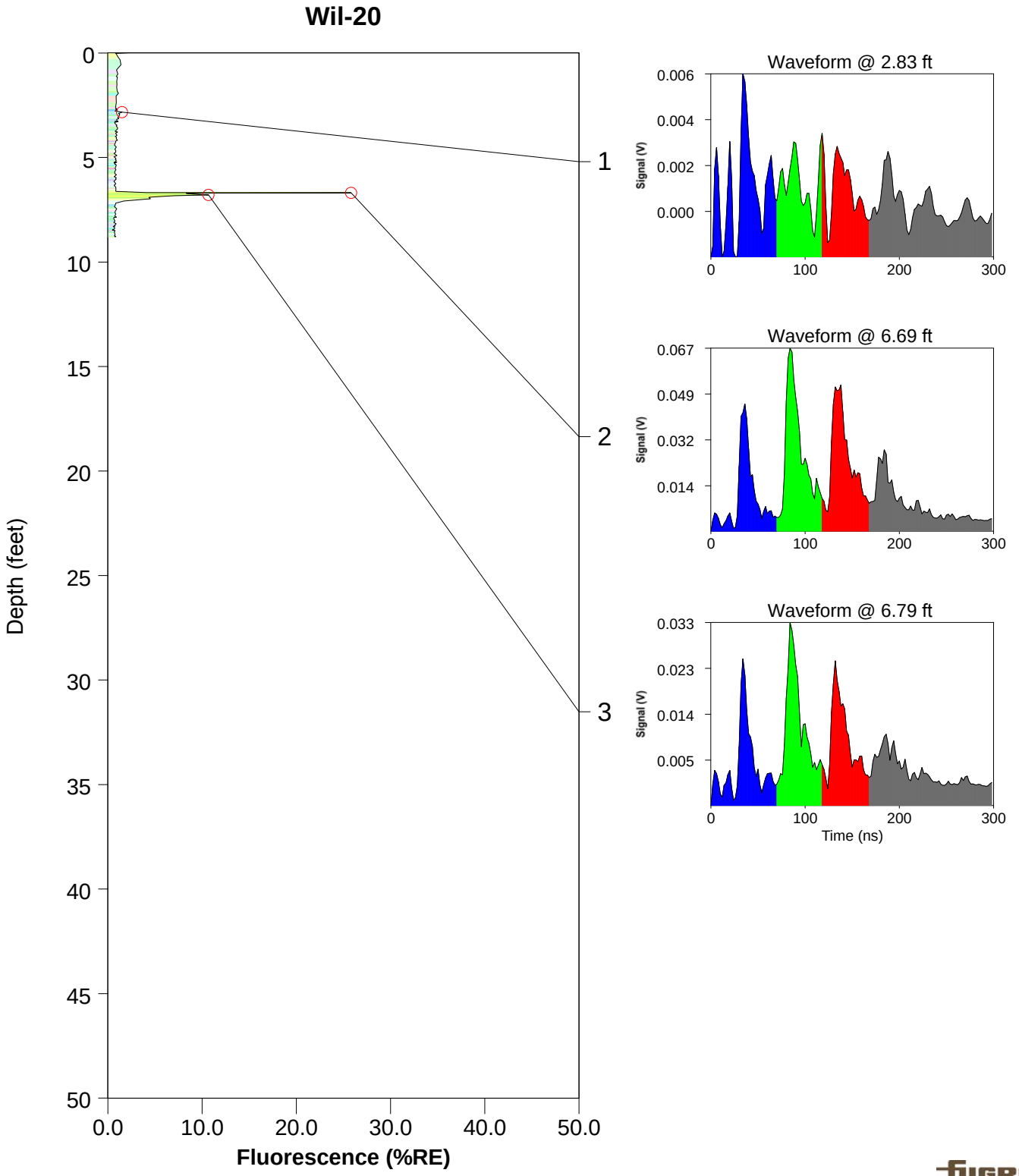
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 2:46:56 PM	Max fluorescence: 2.21% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 7.44 ft



ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 2:15:01 PM	Max fluorescence: 25.81% @ 6.69 ft
ROST Unit: ?	Final depth BGS: 8.79 ft

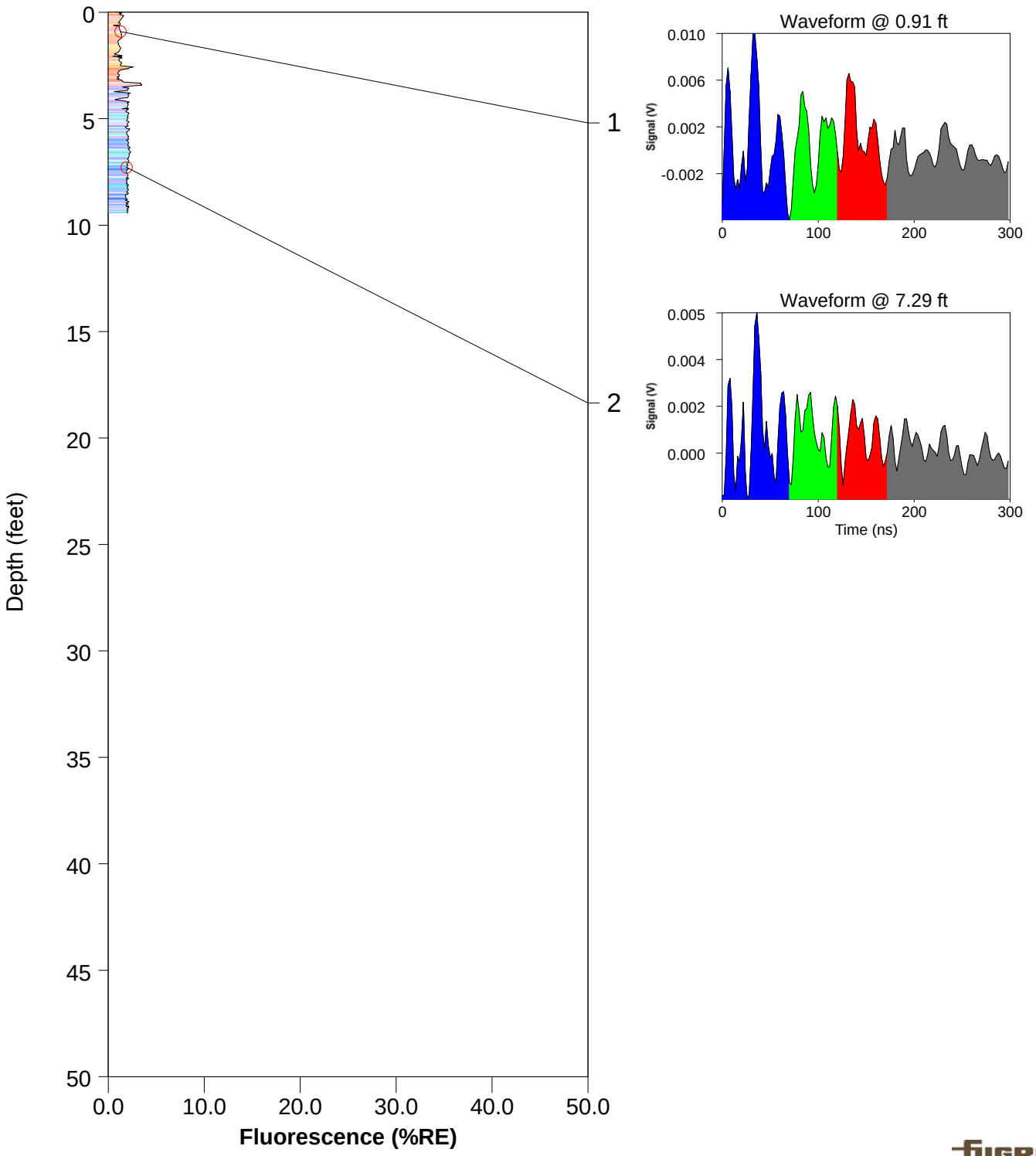


Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

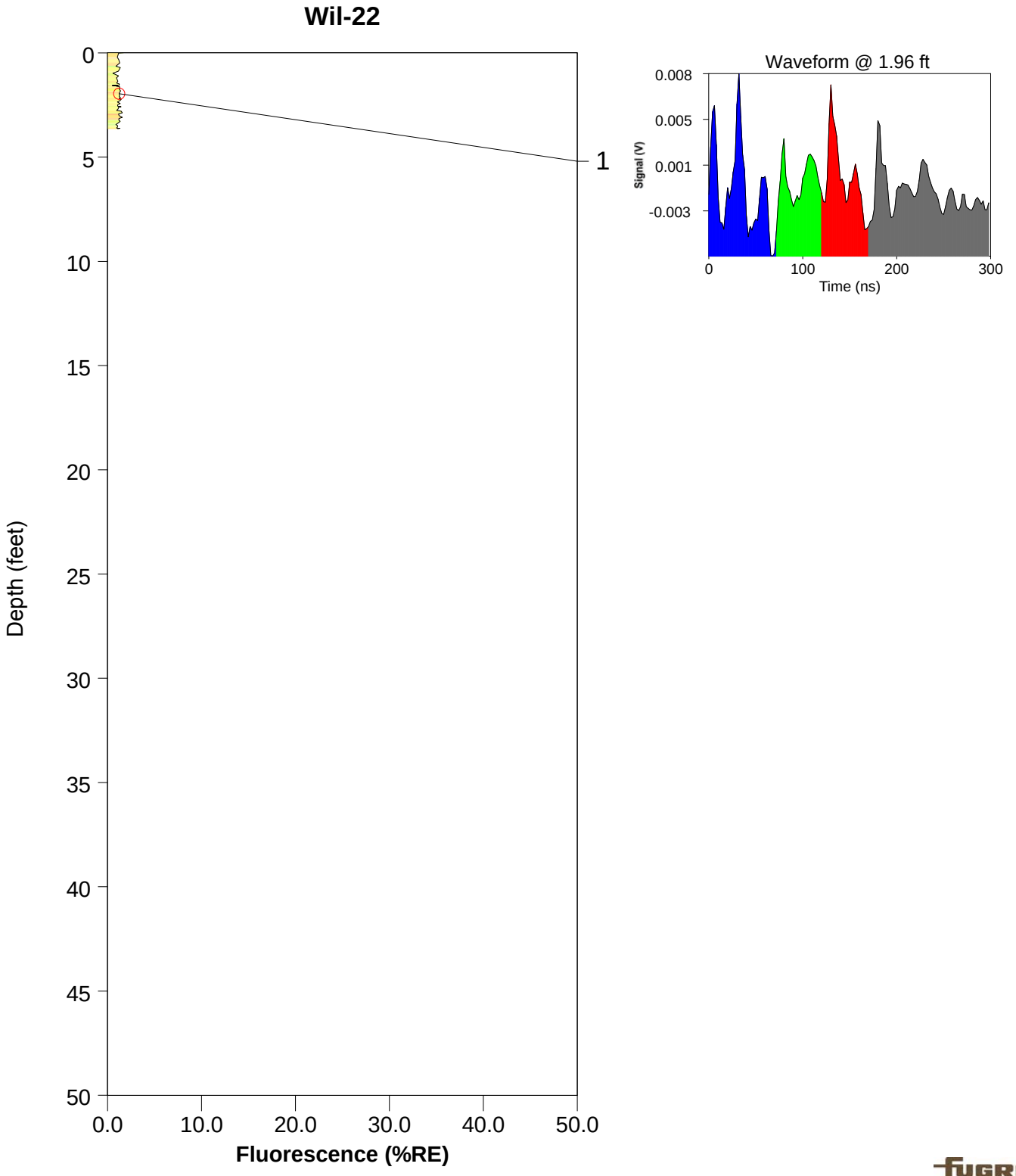
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 12:33:21 PM	Max fluorescence: 3.51% @ 3.42 ft
ROST Unit: ?	Final depth BGS: 9.42 ft

Wil-21



ROST Fluorescence Response Data

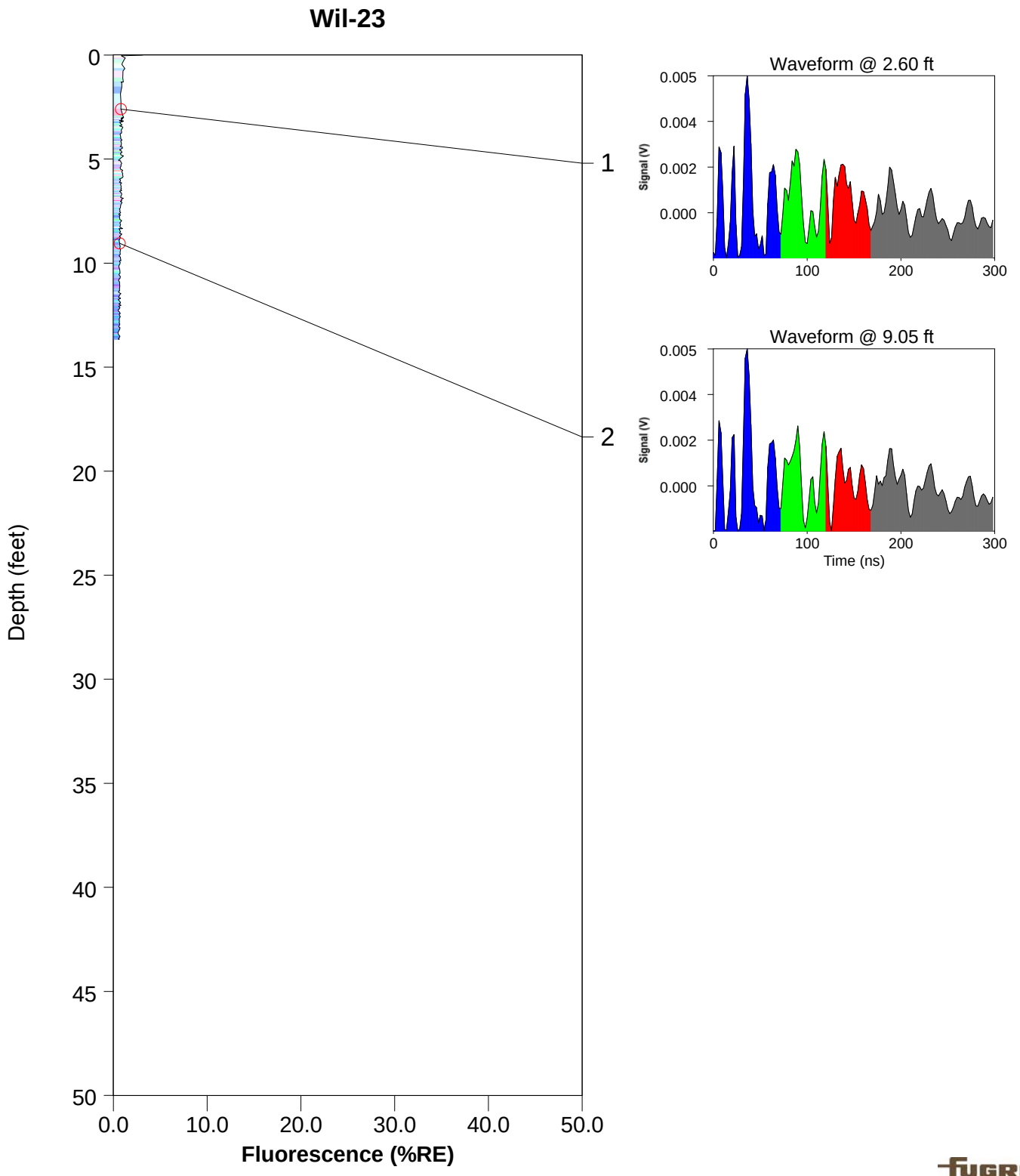
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 11:49:37 AM	Max fluorescence: 1.71% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 3.63 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

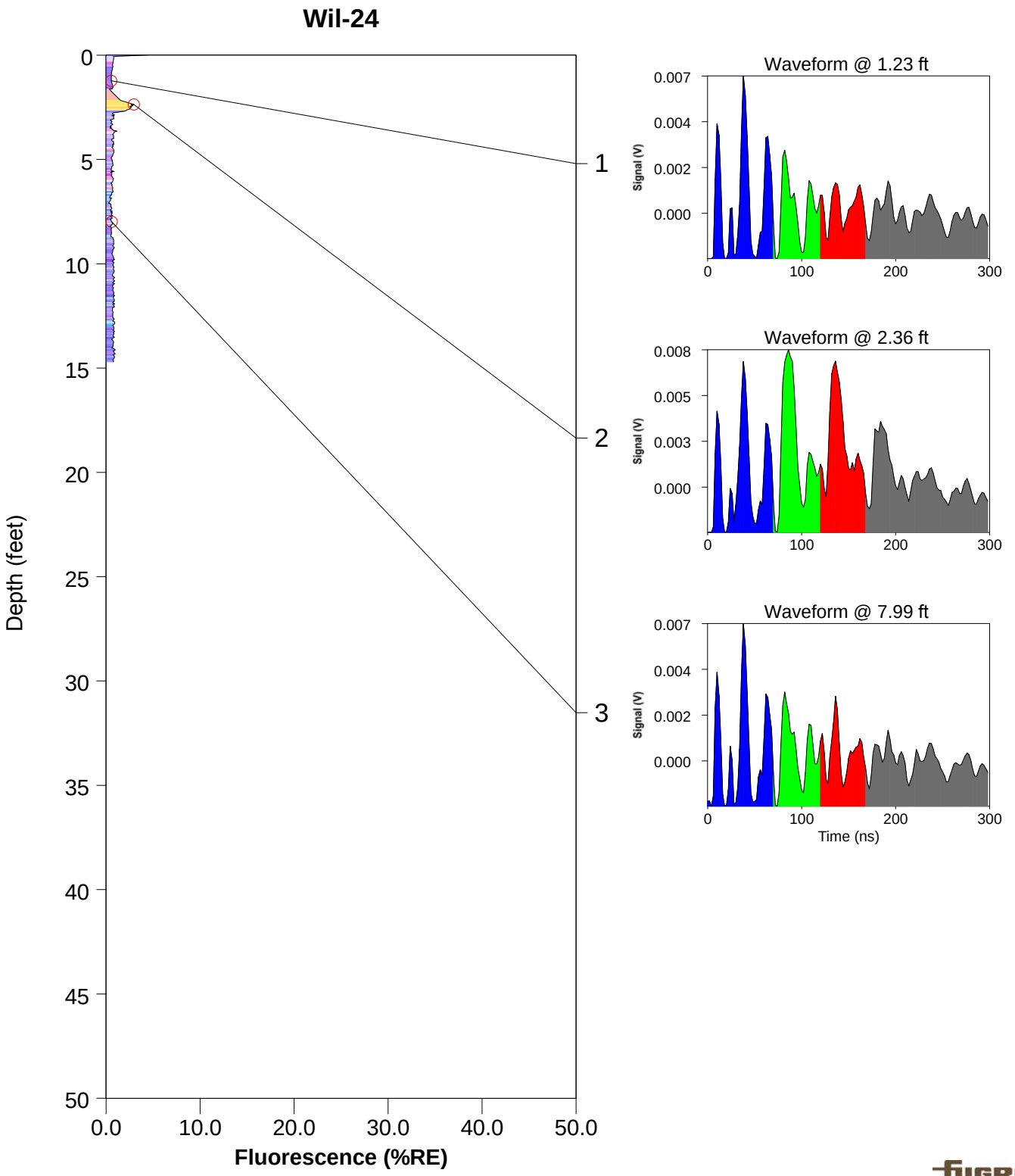
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 1:16:37 PM	Max fluorescence: 3.11% @ 0.01 ft
ROST Unit: ?	Final depth BGS: 13.66 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

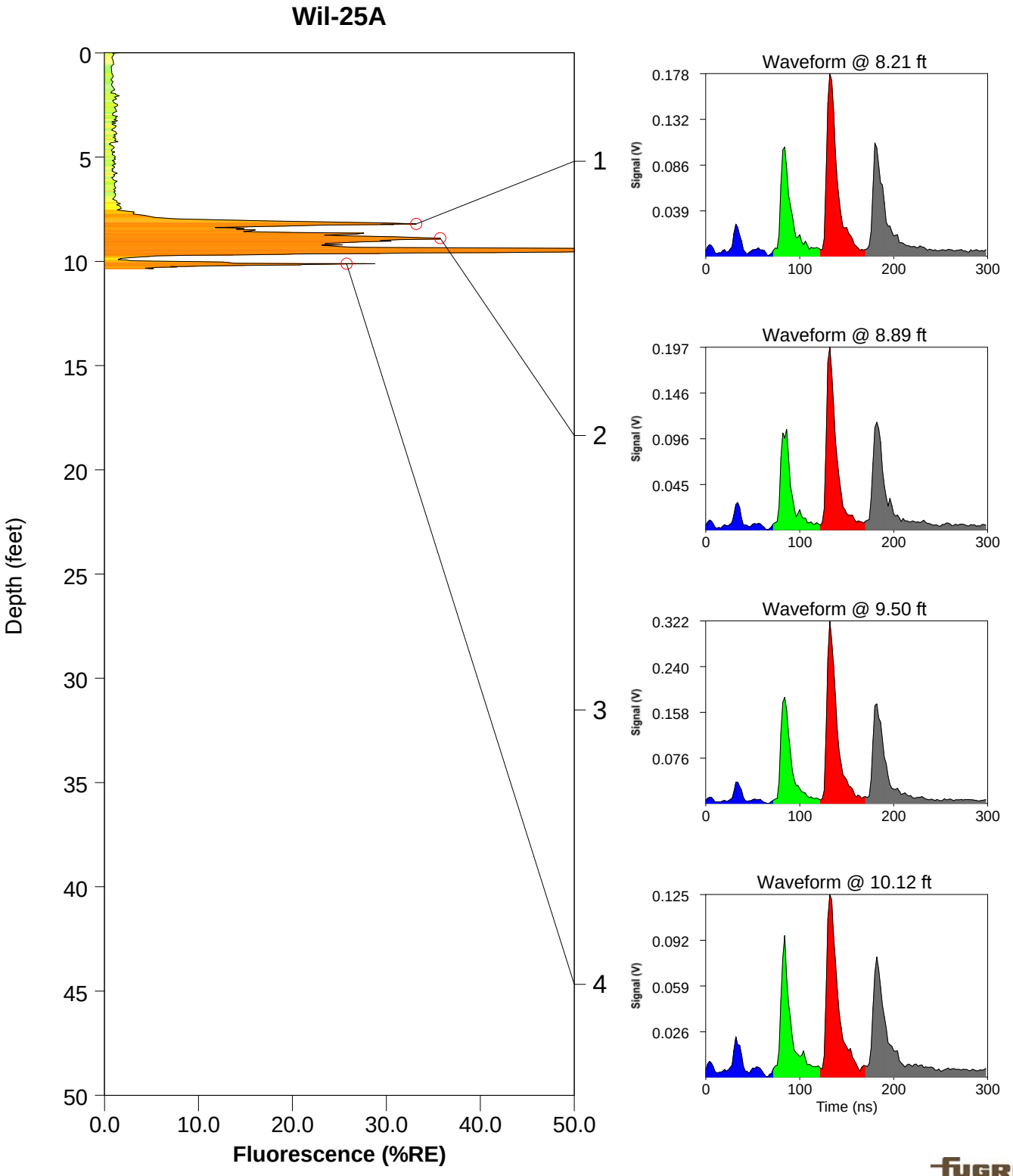
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 3:38:48 PM	Max fluorescence: 4.50% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 14.70 ft



ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 11:11:19 AM	Max fluorescence: 60.19% @ 9.49 ft
ROST Unit: ?	Final depth BGS: 10.35 ft

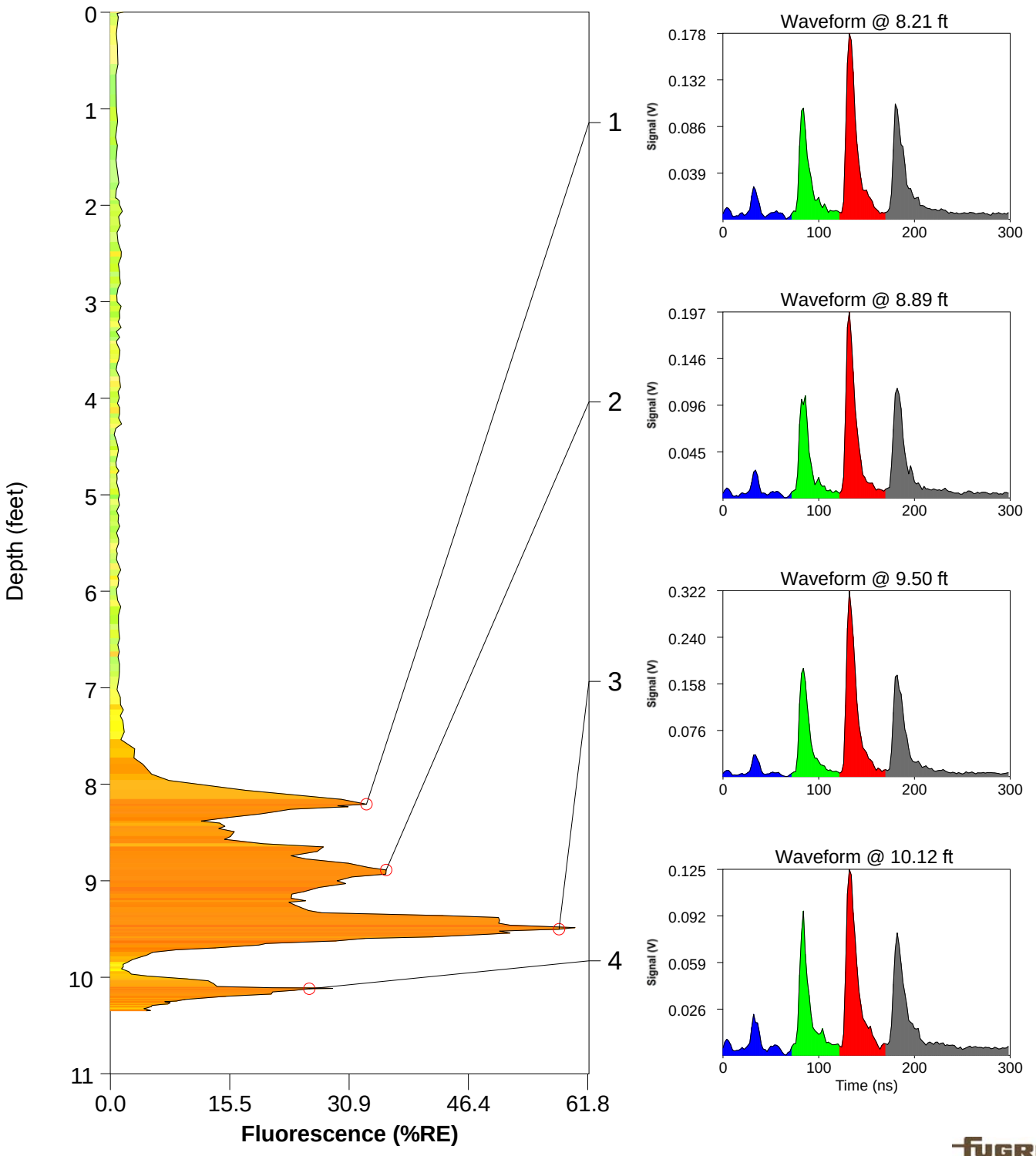


Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

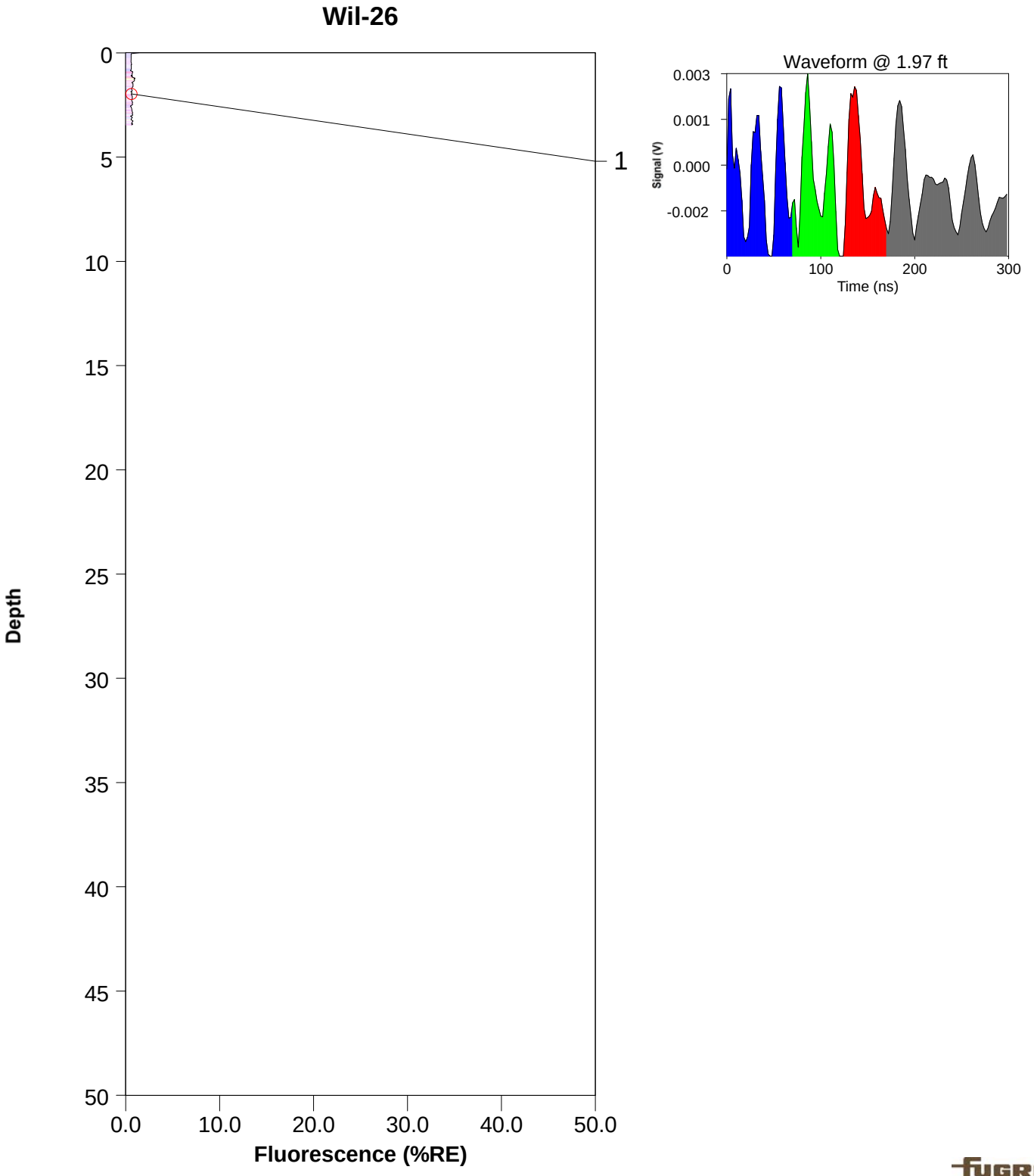
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/6/2015 @ 11:11:19 AM	Max fluorescence: 60.19% @ 9.49 ft
ROST Unit: ?	Final depth BGS: 10.35 ft

Wil-25A



ROST Fluorescence Response Data

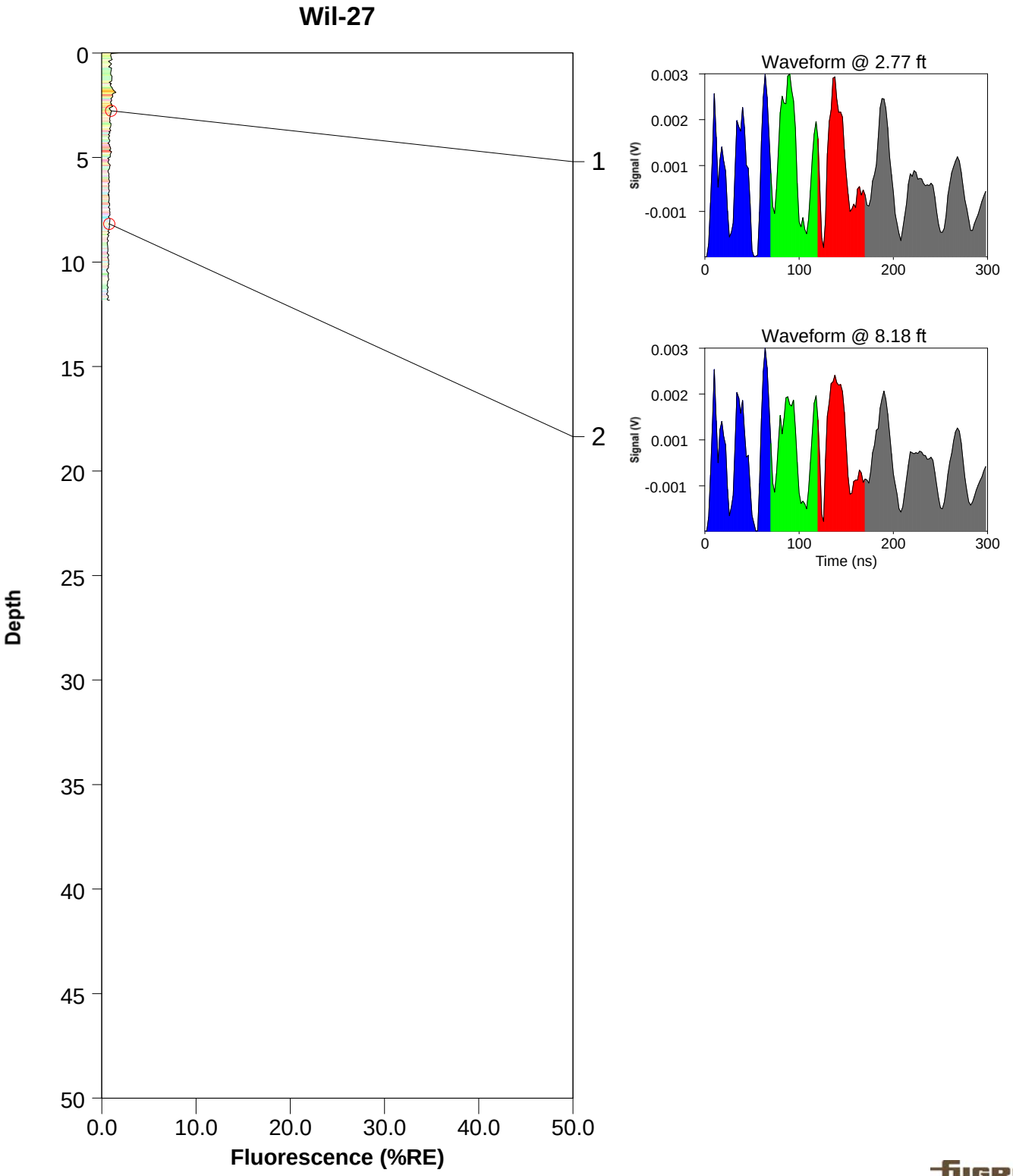
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 1:34:29 PM	Max fluorescence: 1.43% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 3.46 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 1:14:24 PM	Max fluorescence: 1.75% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 11.83 ft

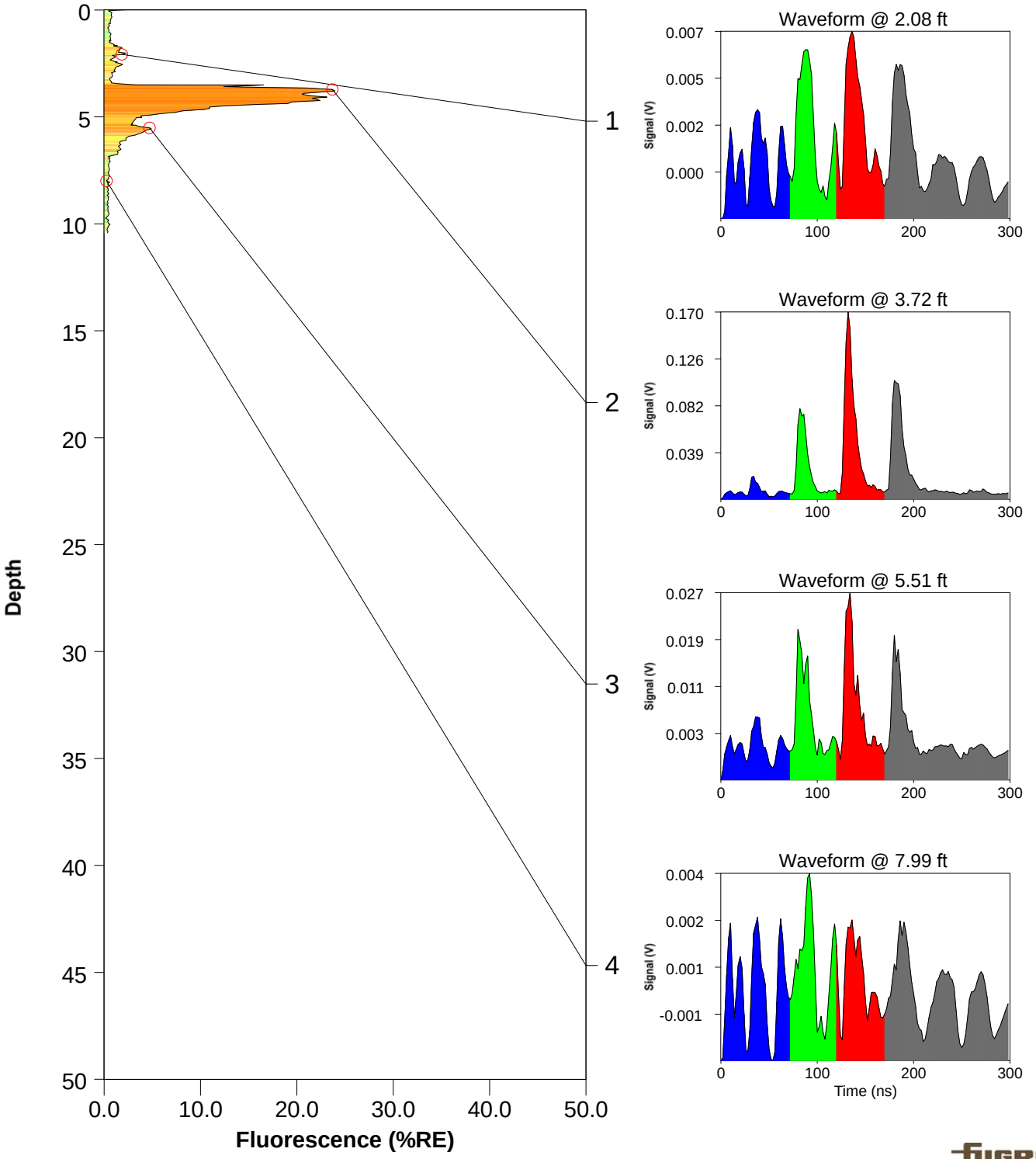


Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 12:54:02 PM	Max fluorescence: 23.93% @ 3.79 ft
ROST Unit: ?	Final depth BGS: 10.42 ft

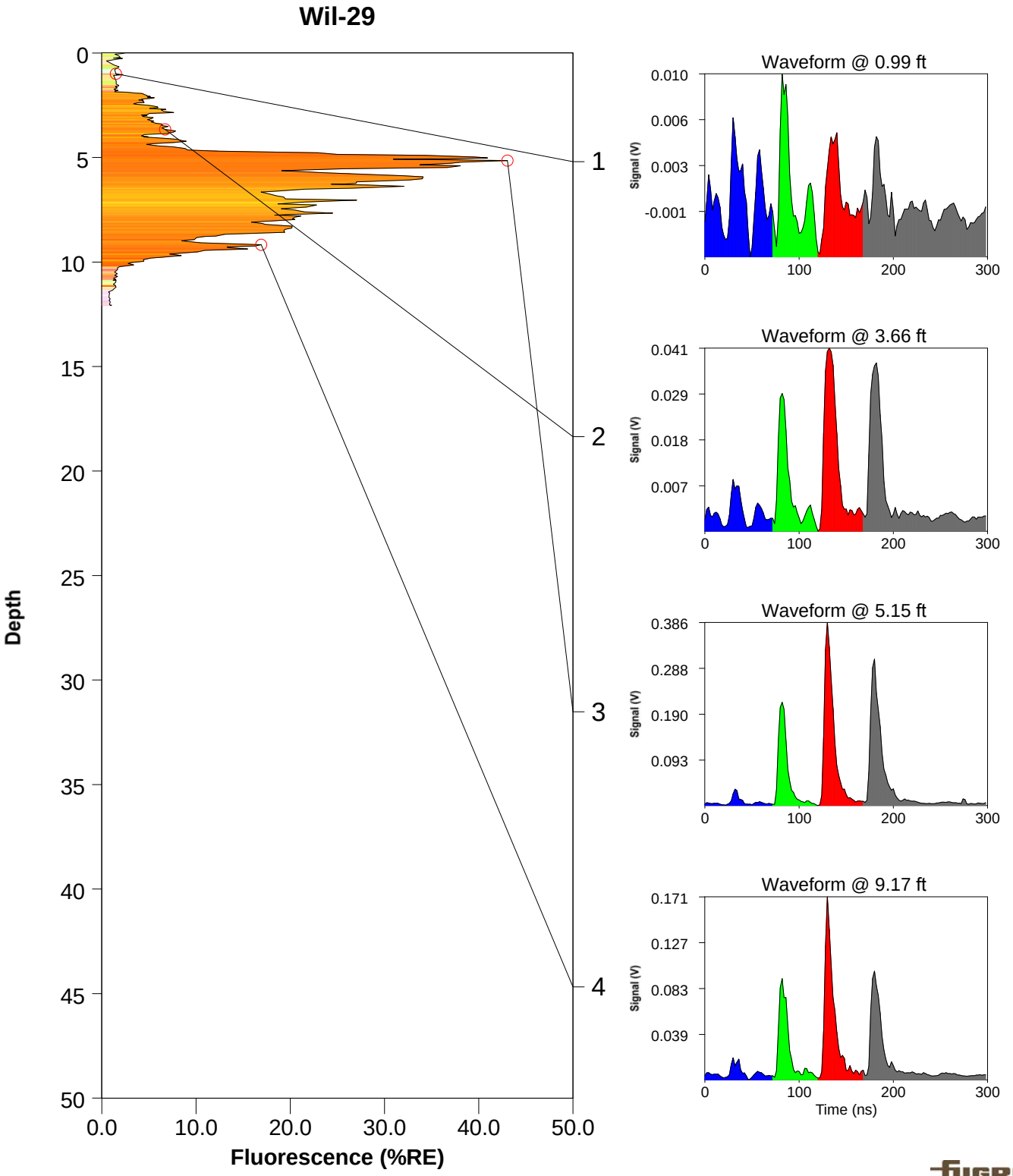
Wil-28



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

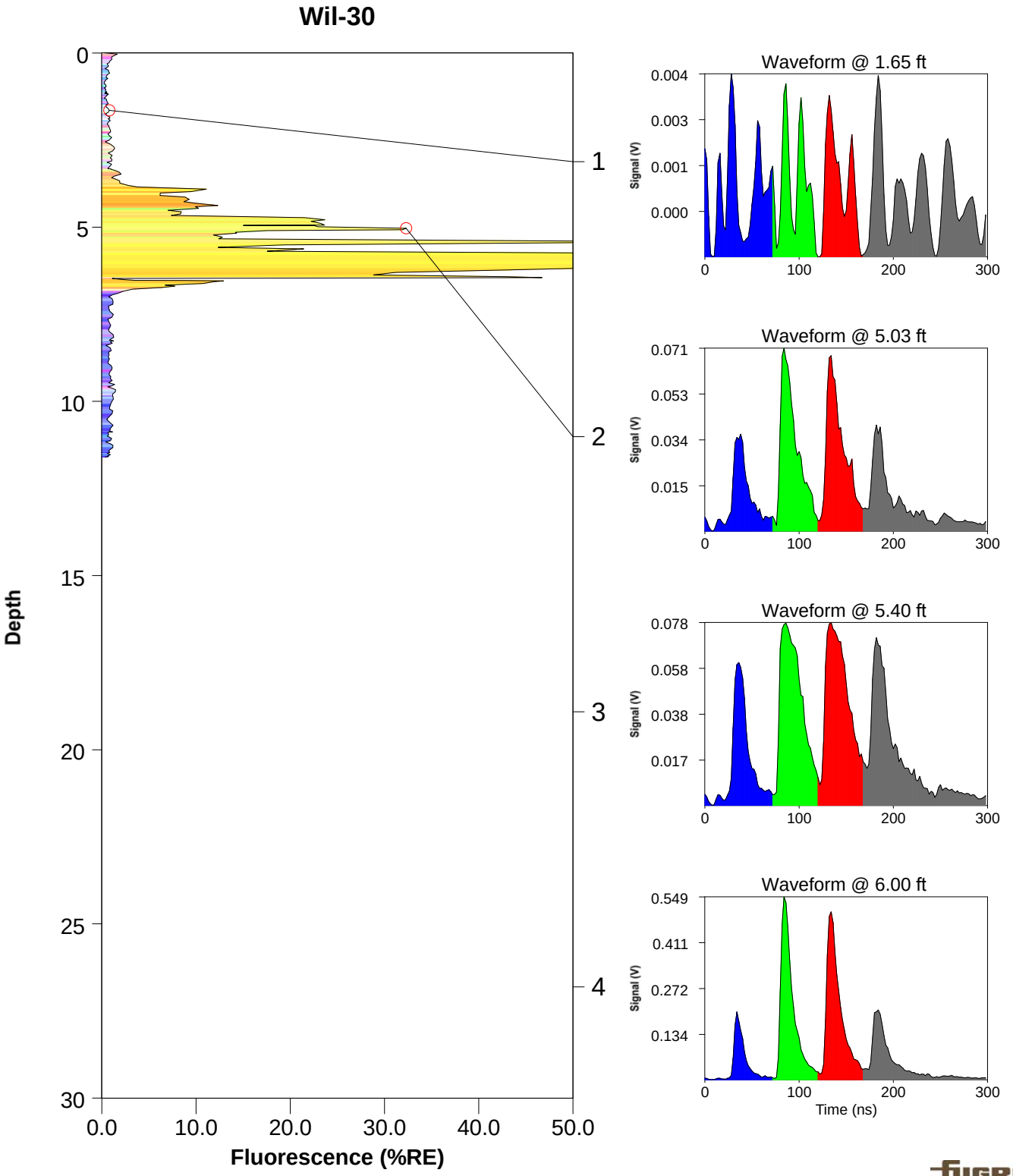
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/5/2015 @ 12:07:38 PM	Max fluorescence: 43.05% @ 5.15 ft
ROST Unit: ?	Final depth BGS: 12.08 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

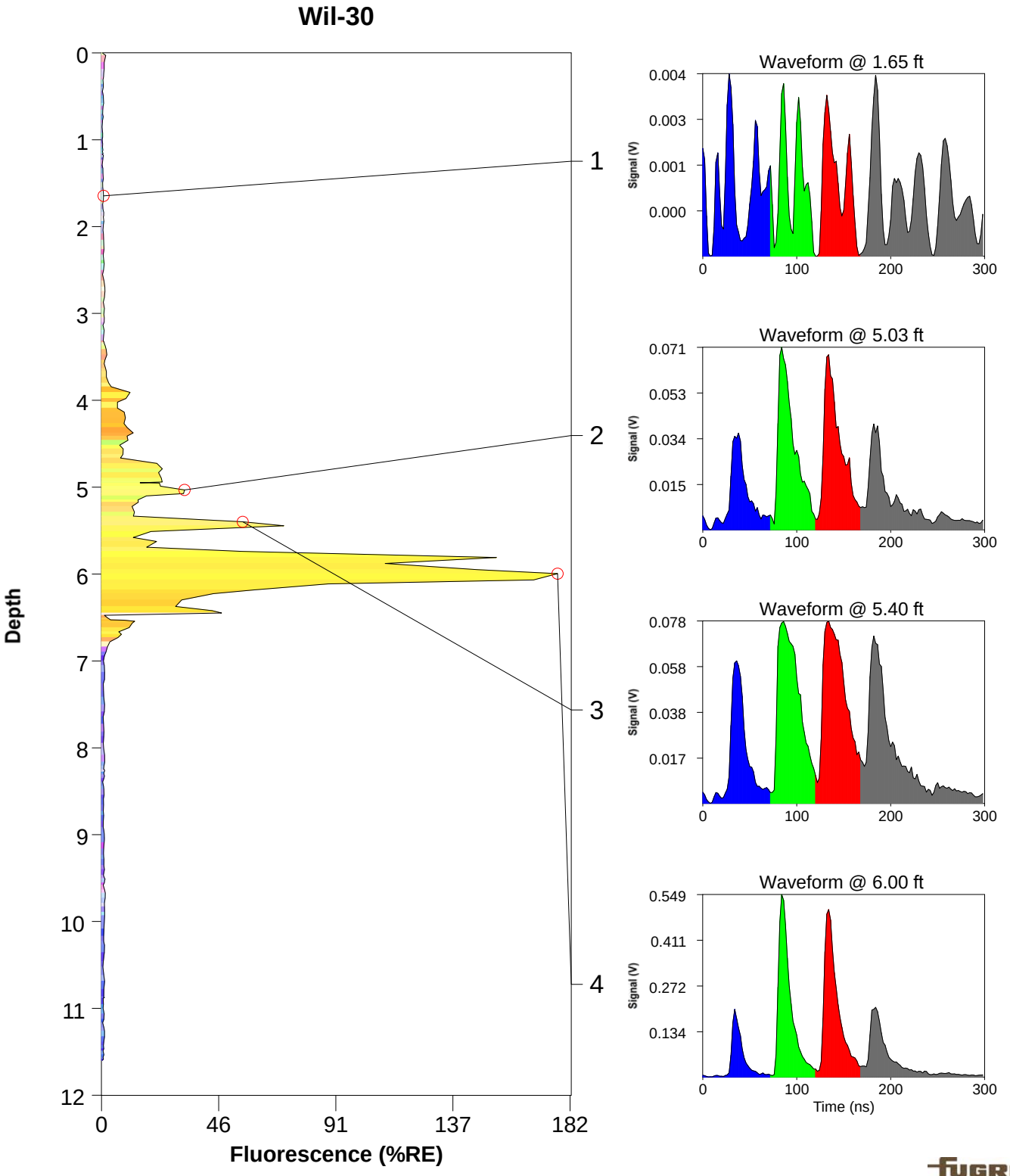
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 9:27:35 AM	Max fluorescence: 177.42% @ 6.00 ft
ROST Unit: ?	Final depth BGS: 11.60 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

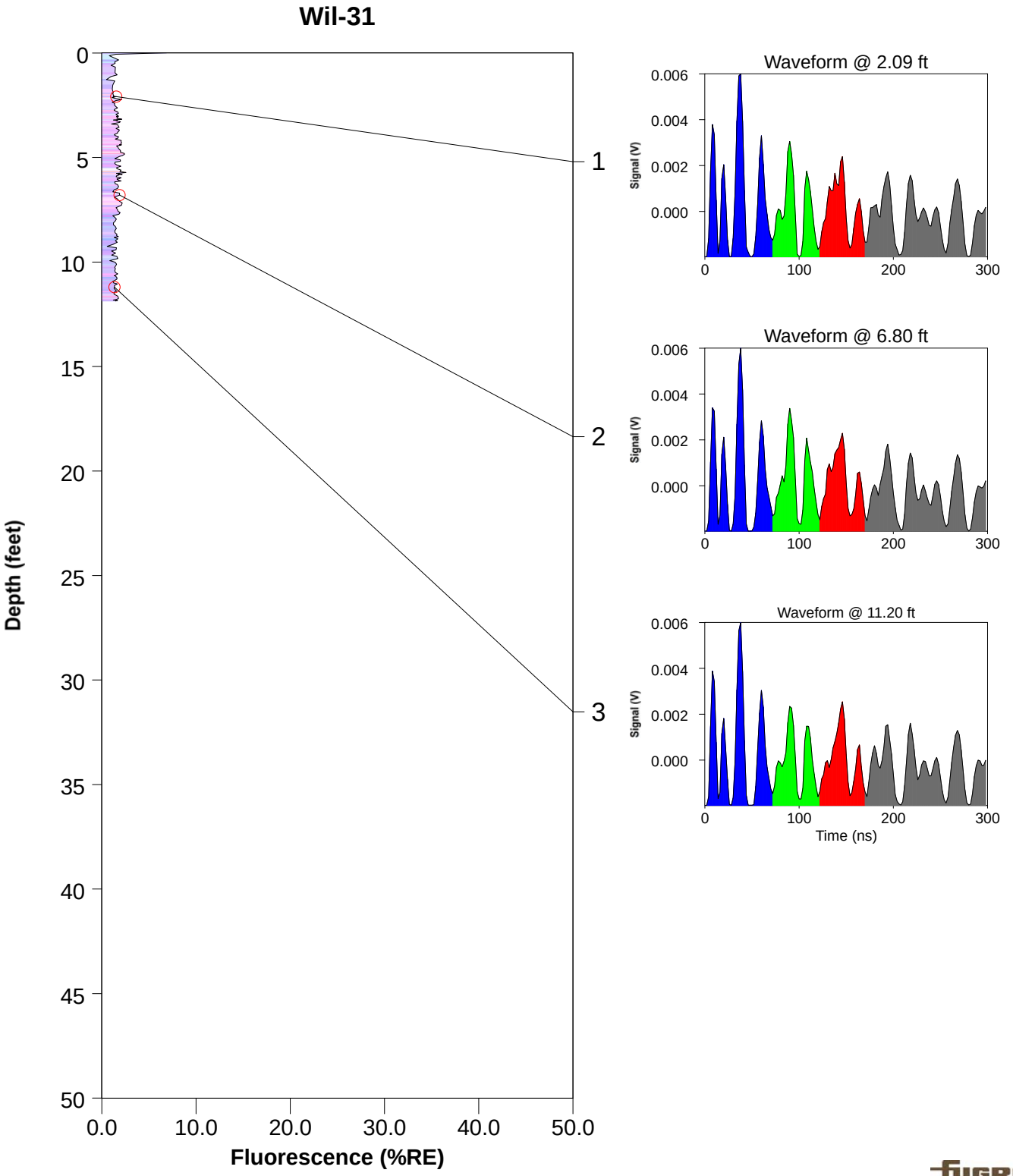
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/4/2015 @ 9:27:35 AM	Max fluorescence: 177.42% @ 6.00 ft
ROST Unit: ?	Final depth BGS: 11.60 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

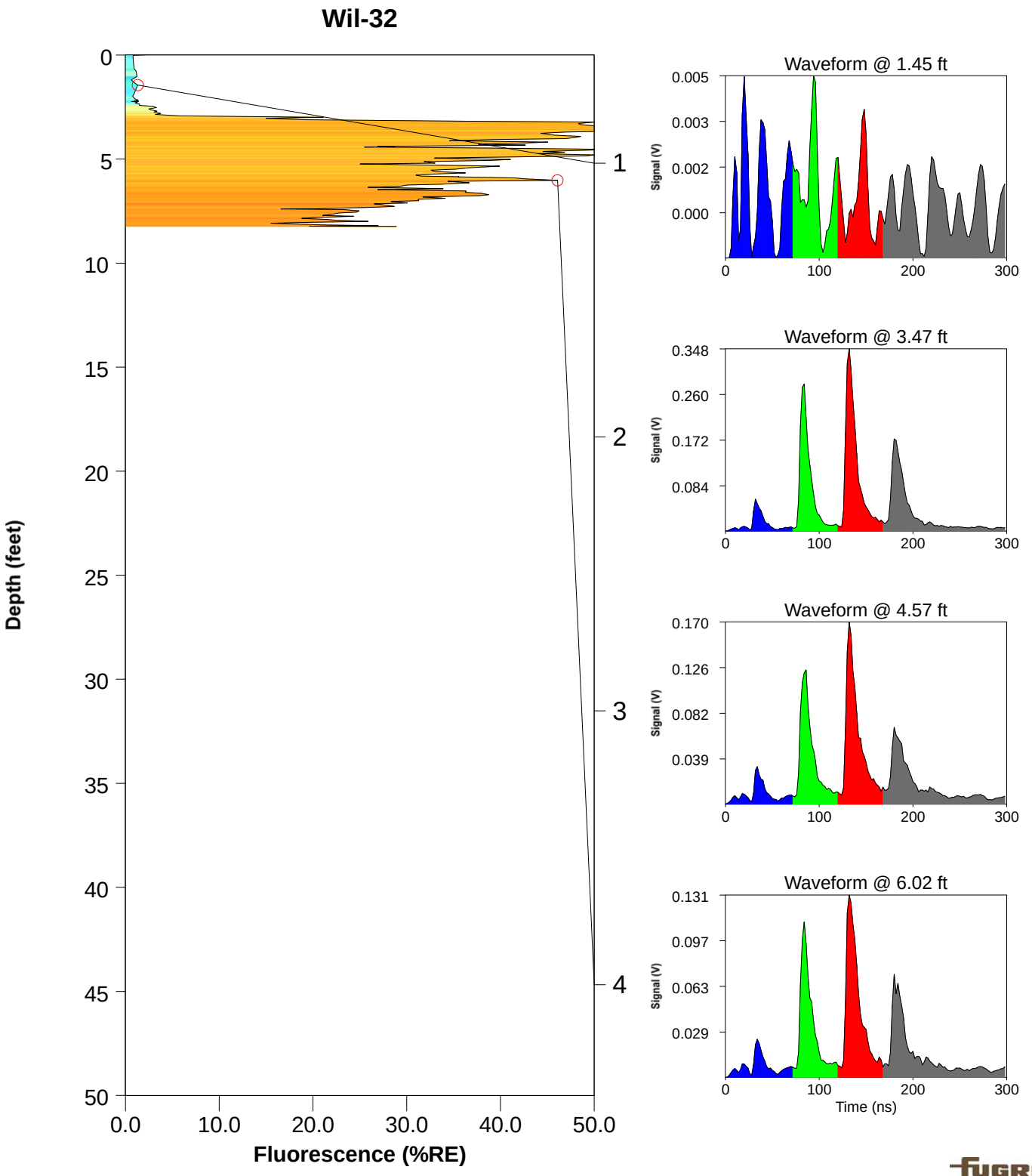
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 10:45:44 AM	Max fluorescence: 6.87% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 11.86 ft



ROST Fluorescence Response Data

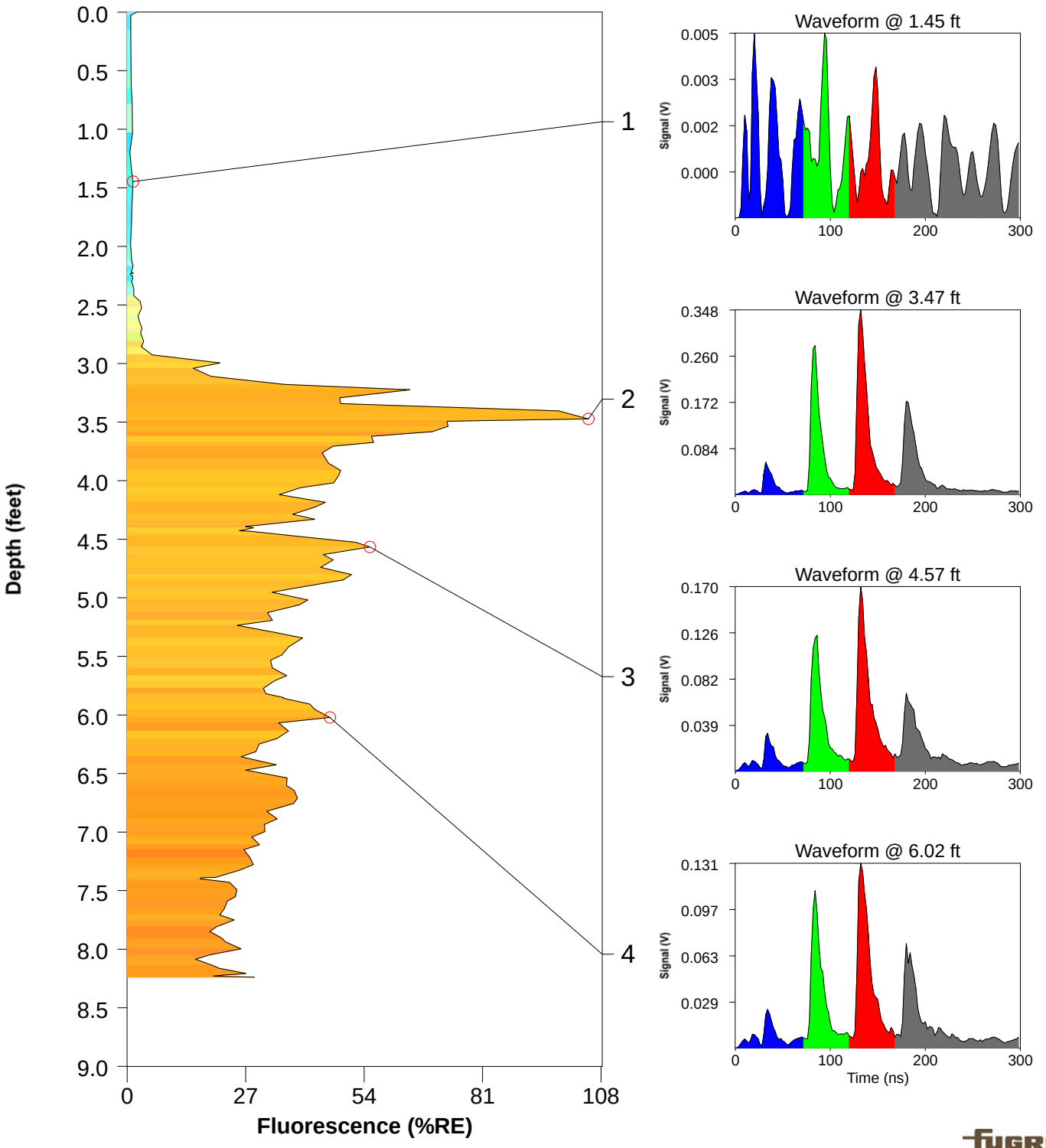
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 11:31:43 AM	Max fluorescence: 104.85% @ 3.47 ft
ROST Unit: ?	Final depth BGS: 8.24 ft



ROST Fluorescence Response Data

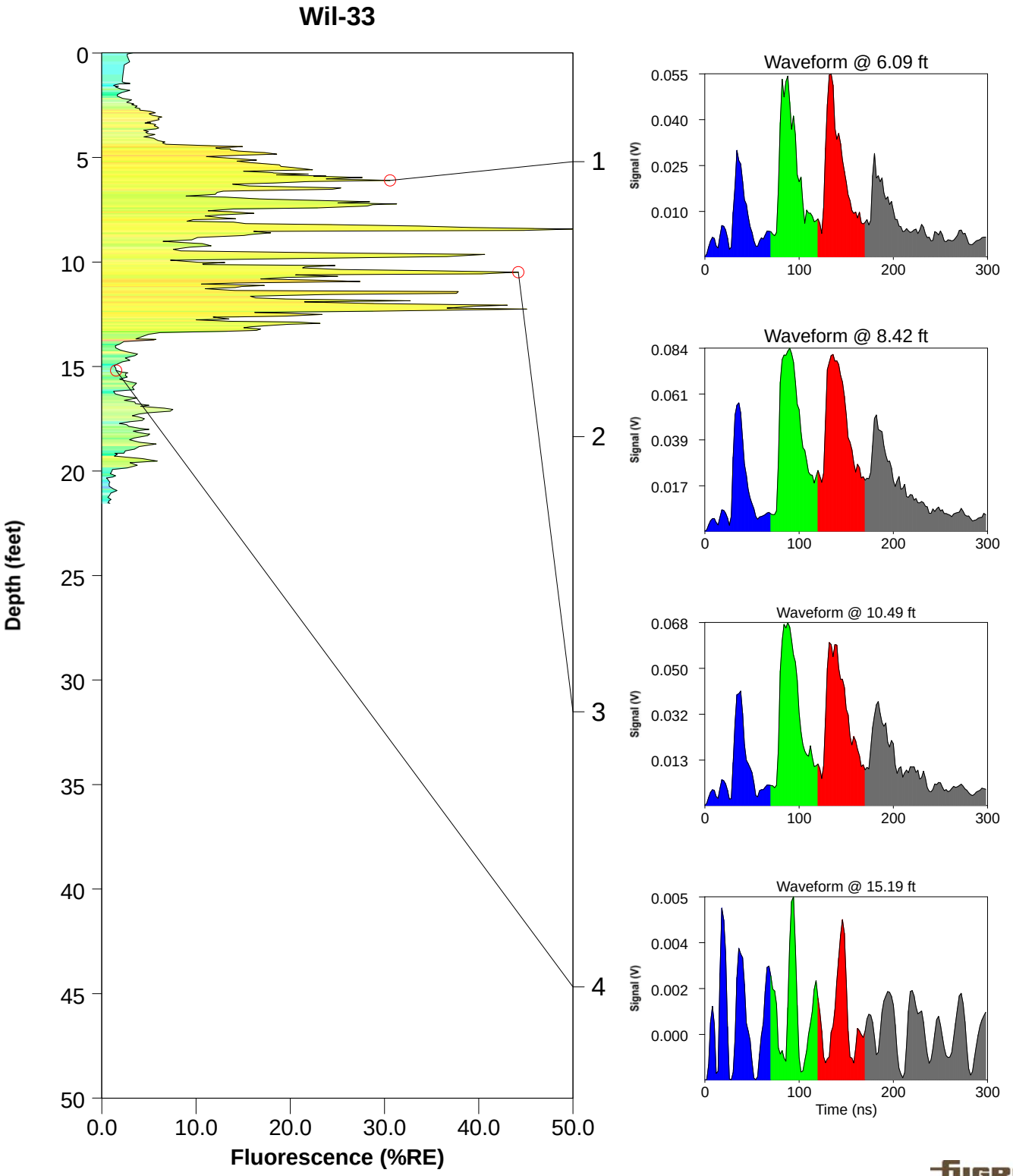
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 11:31:43 AM	Max fluorescence: 104.85% @ 3.47 ft
ROST Unit: ?	Final depth BGS: 8.24 ft

Wil-32



ROST Fluorescence Response Data

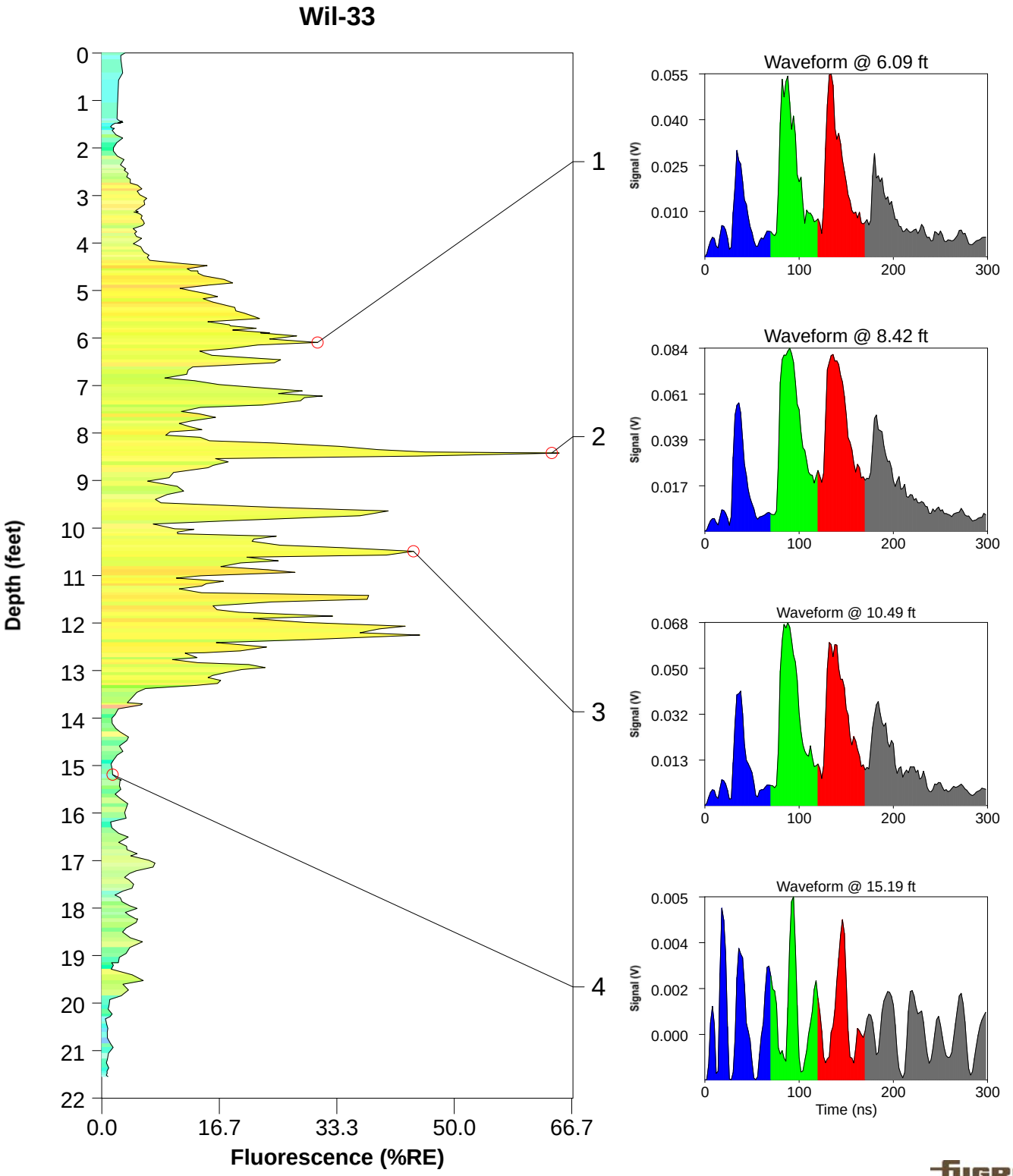
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 12:36:26 PM	Max fluorescence: 64.87% @ 8.42 ft
ROST Unit: ?	Final depth BGS: 21.55 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

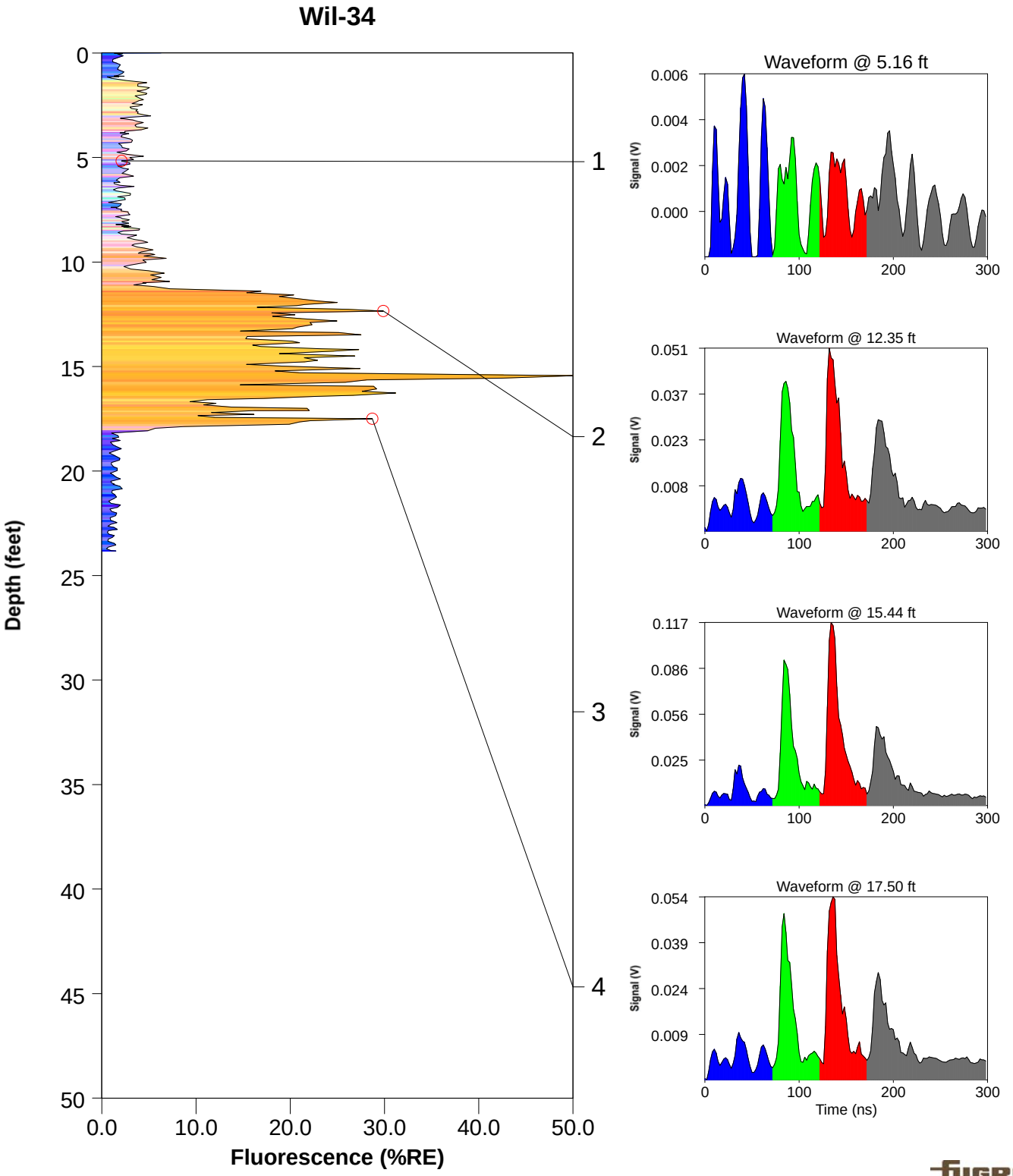
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 12:36:26 PM	Max fluorescence: 64.87% @ 8.42 ft
ROST Unit: ?	Final depth BGS: 21.55 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

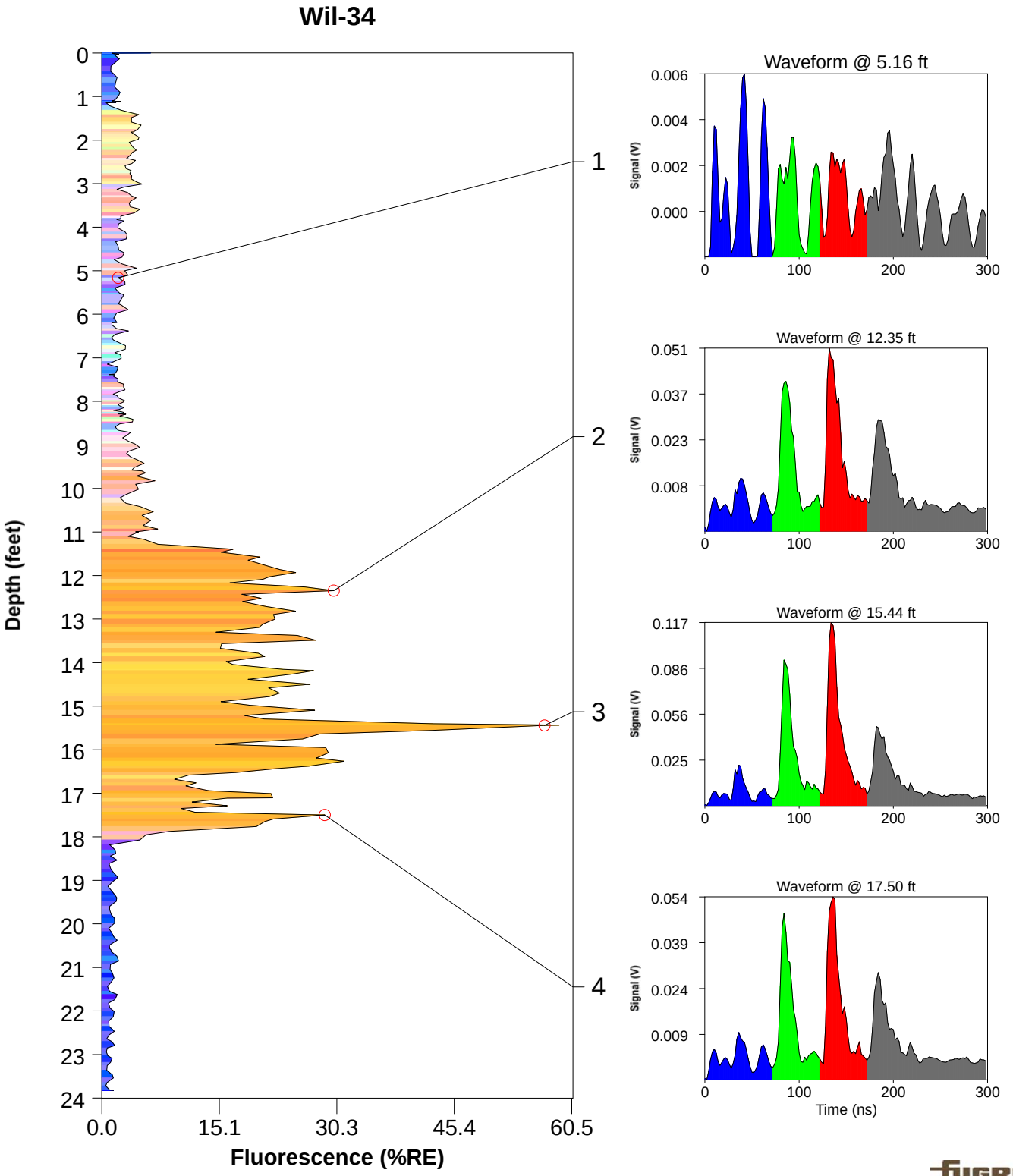
Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/8/2015 @ 9:58:27 AM	Max fluorescence: 58.91% @ 15.44 ft
ROST Unit: ?	Final depth BGS: 23.83 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

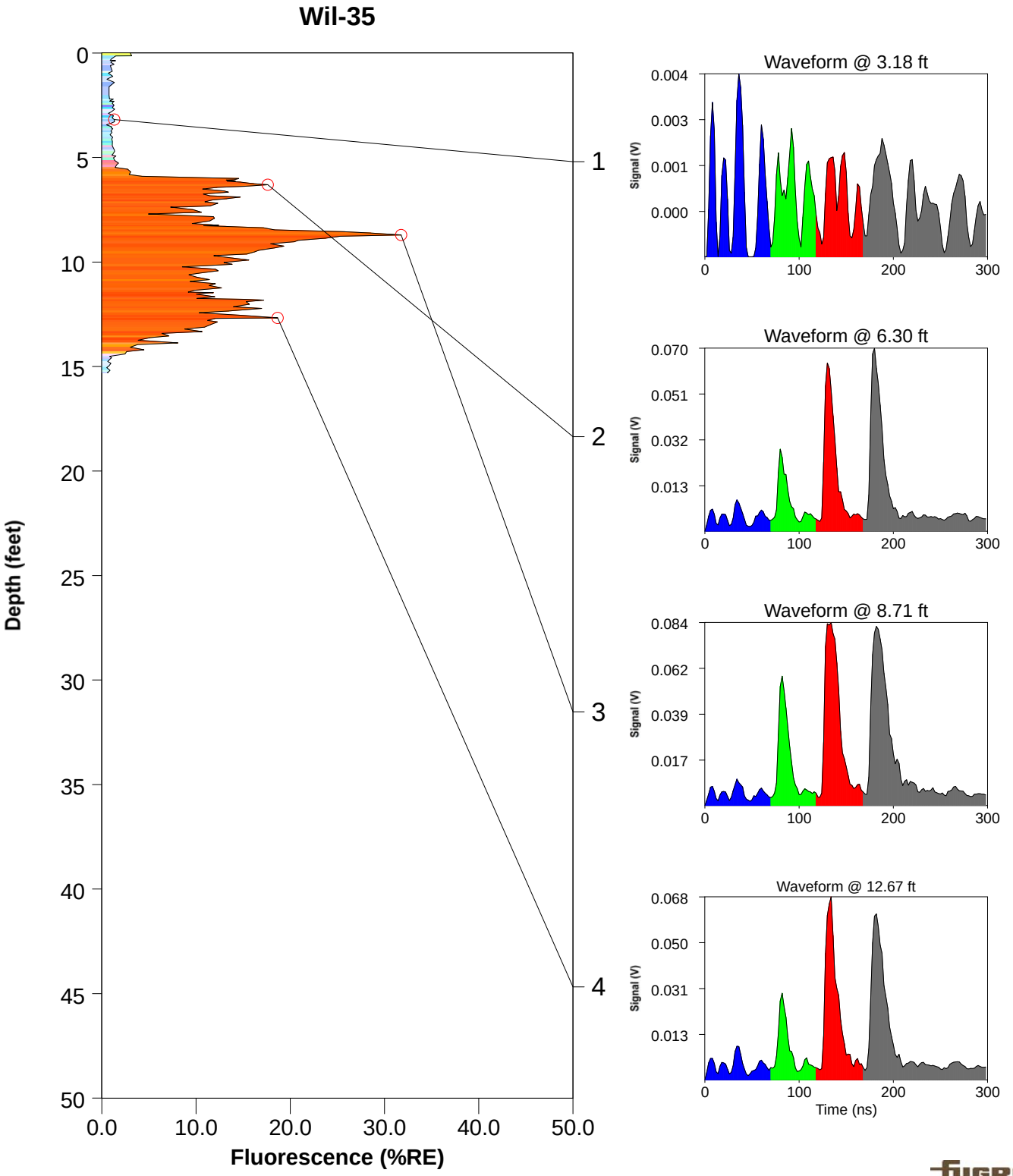
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/8/2015 @ 9:58:27 AM	Max fluorescence: 58.91% @ 15.44 ft
ROST Unit: ?	Final depth BGS: 23.83 ft



ROST Fluorescence Response Data

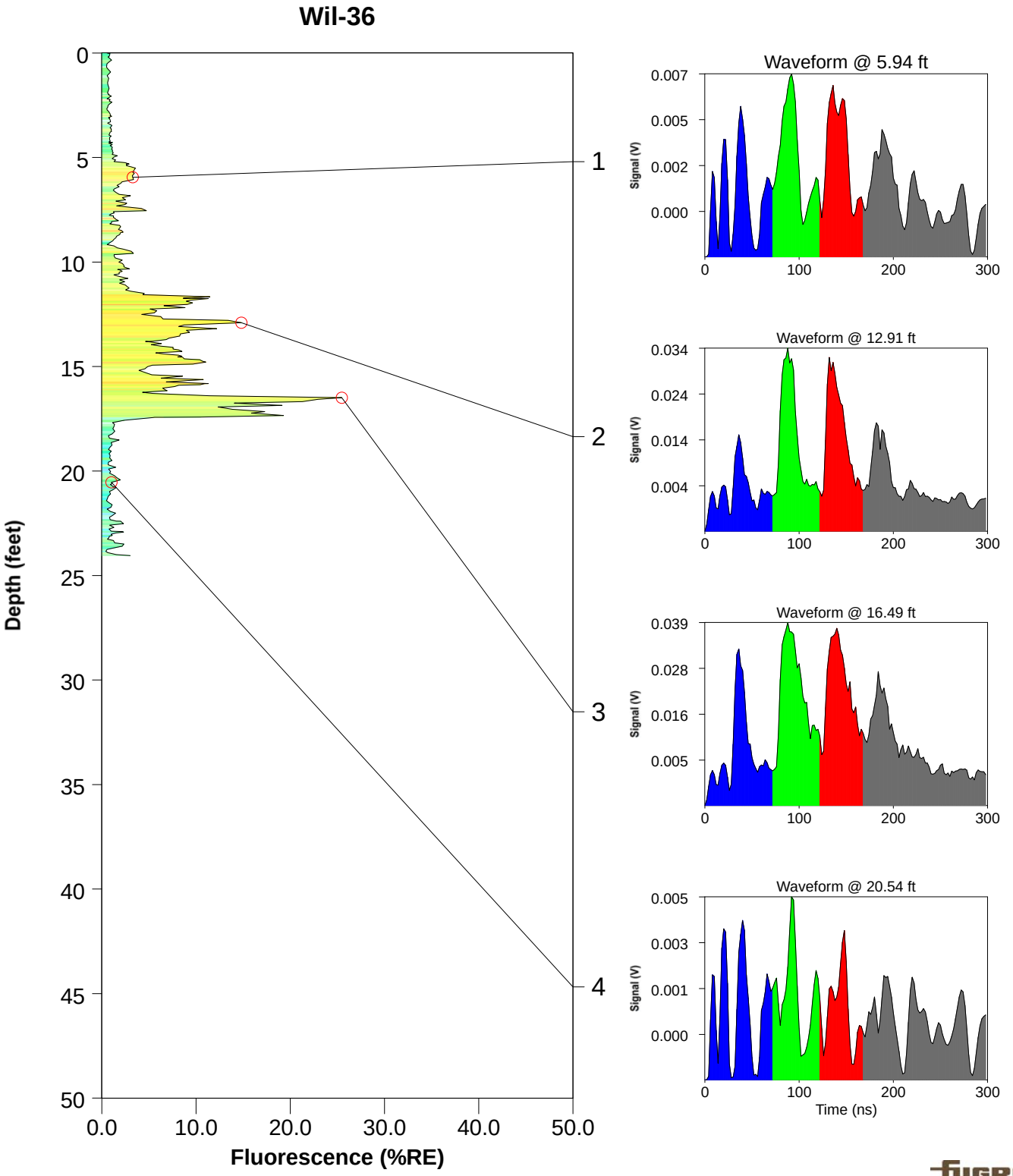
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 3:46:16 PM	Max fluorescence: 31.76% @ 8.71 ft
ROST Unit: ?	Final depth BGS: 15.29 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

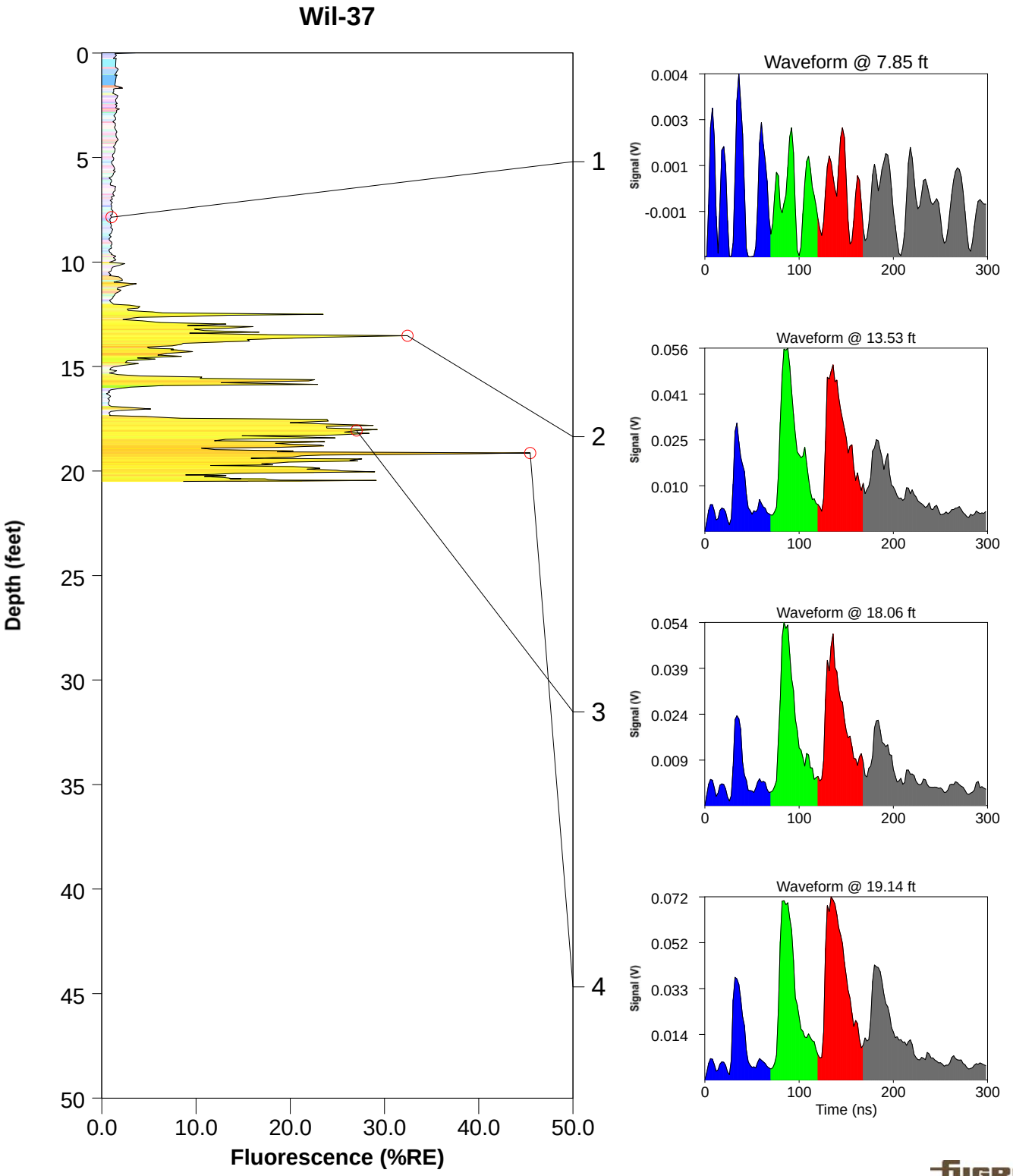
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 1:03:31 PM	Max fluorescence: 25.47% @ 16.49 ft
ROST Unit: ?	Final depth BGS: 24.05 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

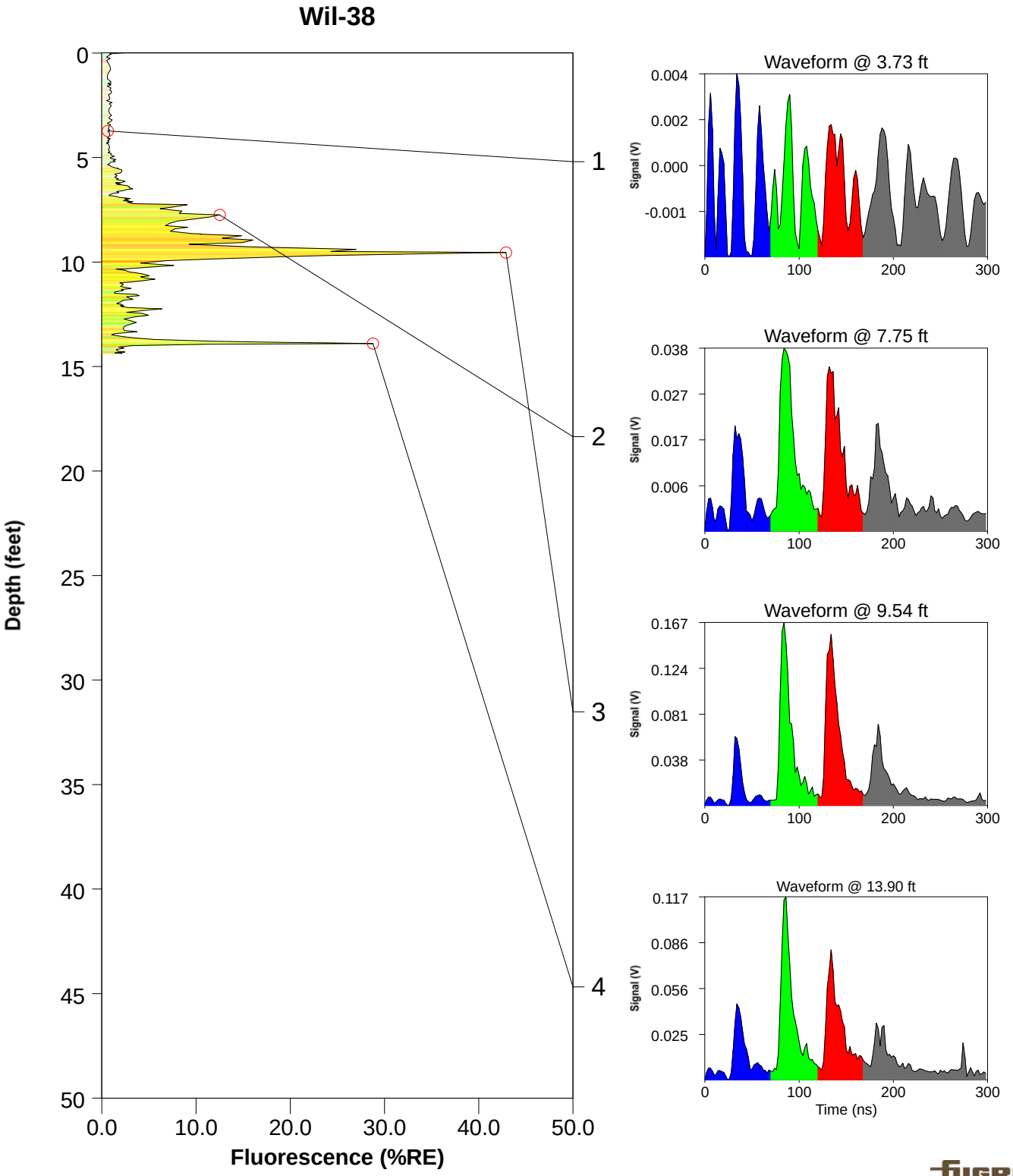
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 2:29:25 PM	Max fluorescence: 45.46% @ 19.14 ft
ROST Unit: ?	Final depth BGS: 20.50 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

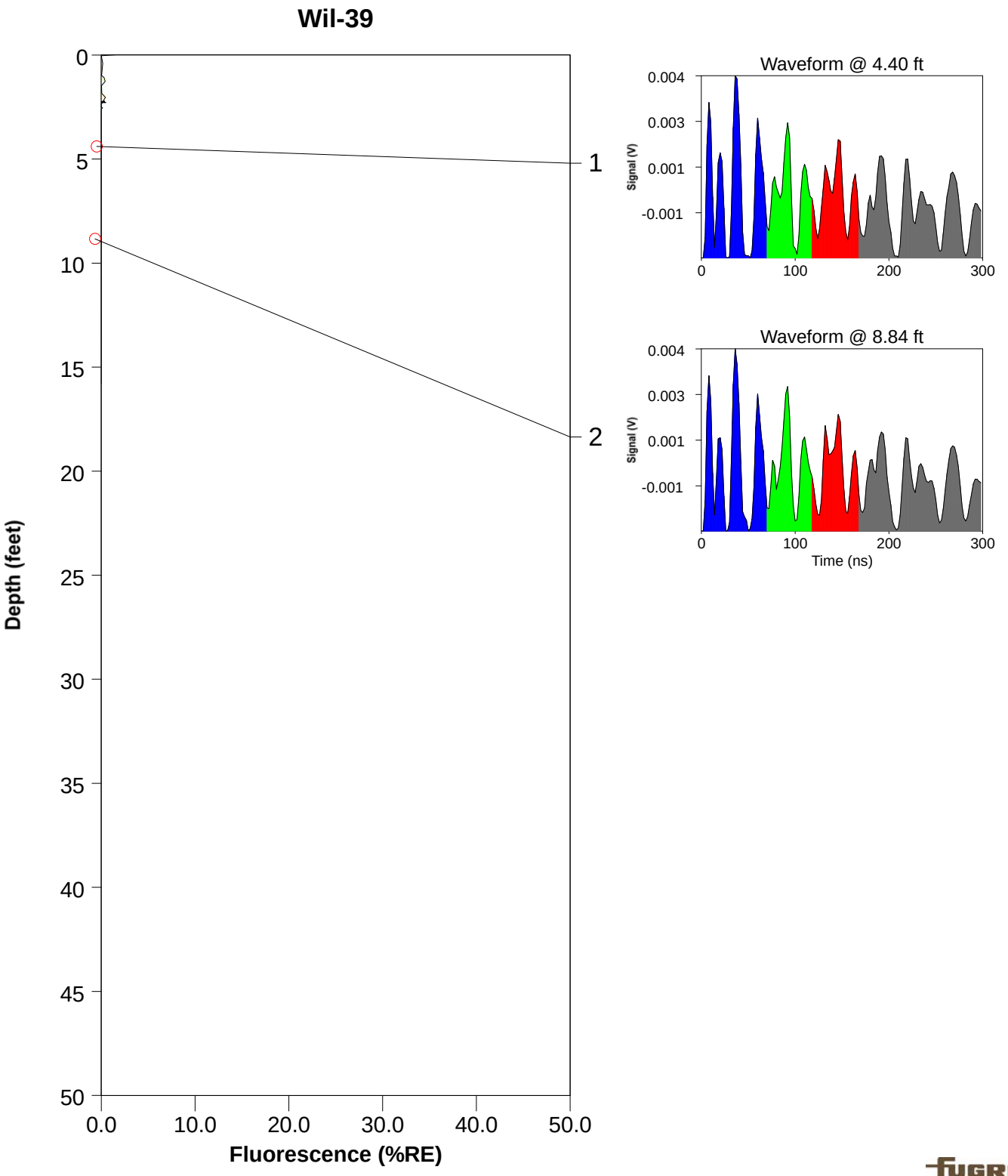
Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 2:08:36 PM	Max fluorescence: 42.89% @ 9.54 ft
ROST Unit: ?	Final depth BGS: 14.37 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

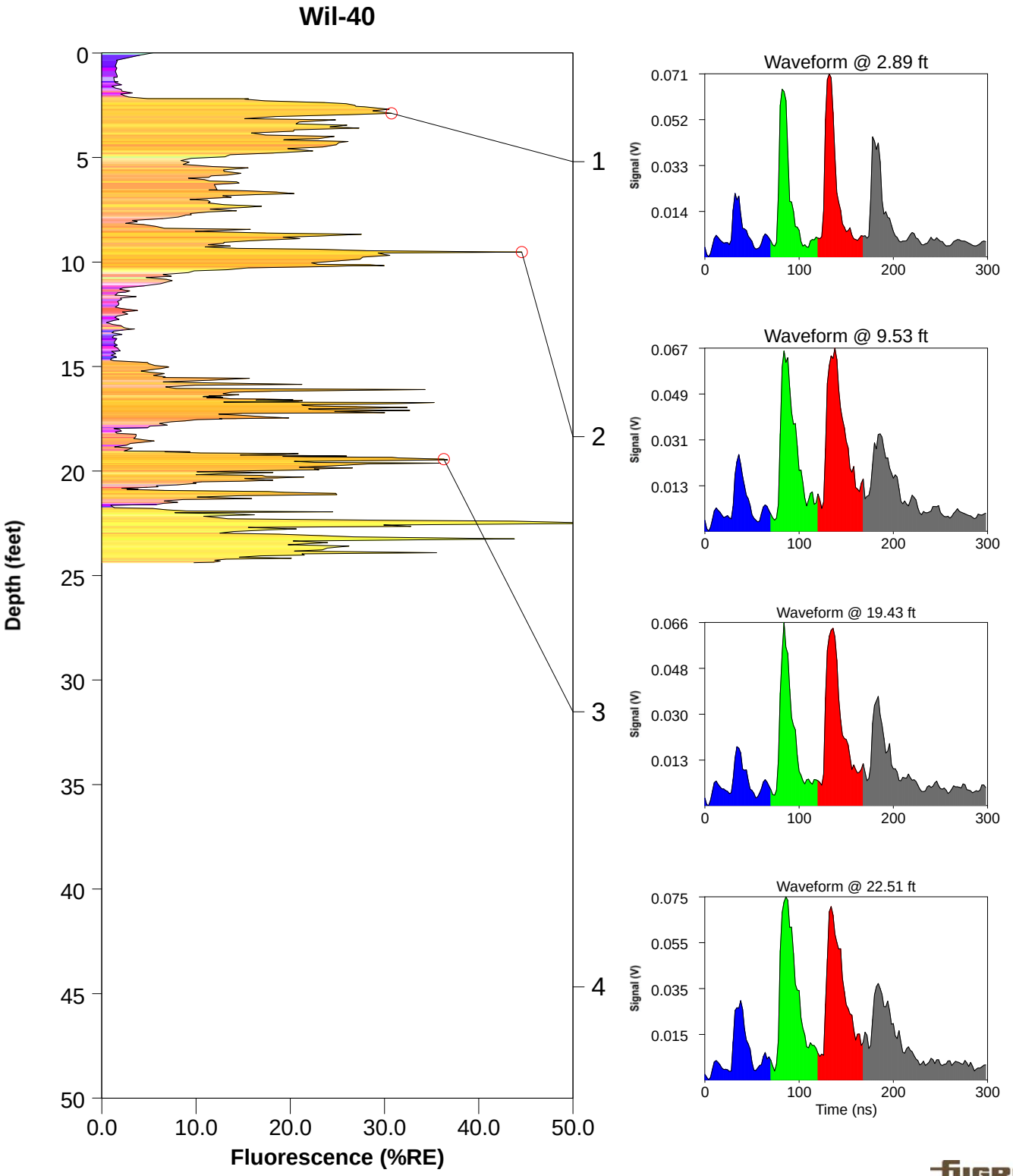
ROST Fluorescence Response Data

Site: bristow ok	Operator: mitch p
Client: lockheed martin	Fugro Job #: 04-1915-0058
Date/Time: 12/7/2015 @ 3:23:10 PM	Max fluorescence: 1.52% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 15.80 ft



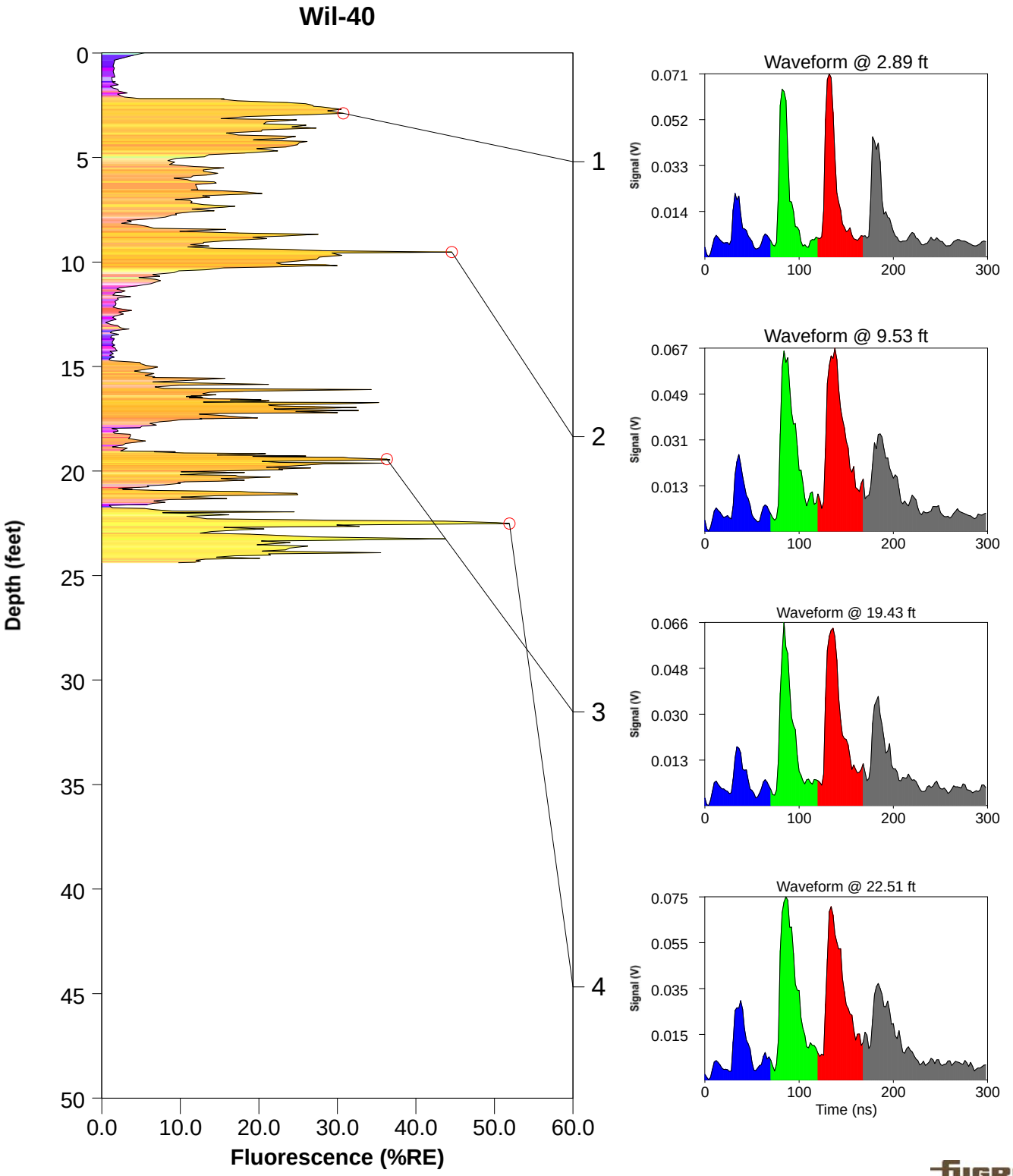
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/8/2015 @ 12:08:53 PM	Max fluorescence: 51.90% @ 22.51 ft
ROST Unit: 1	Final depth BGS: 24.39 ft



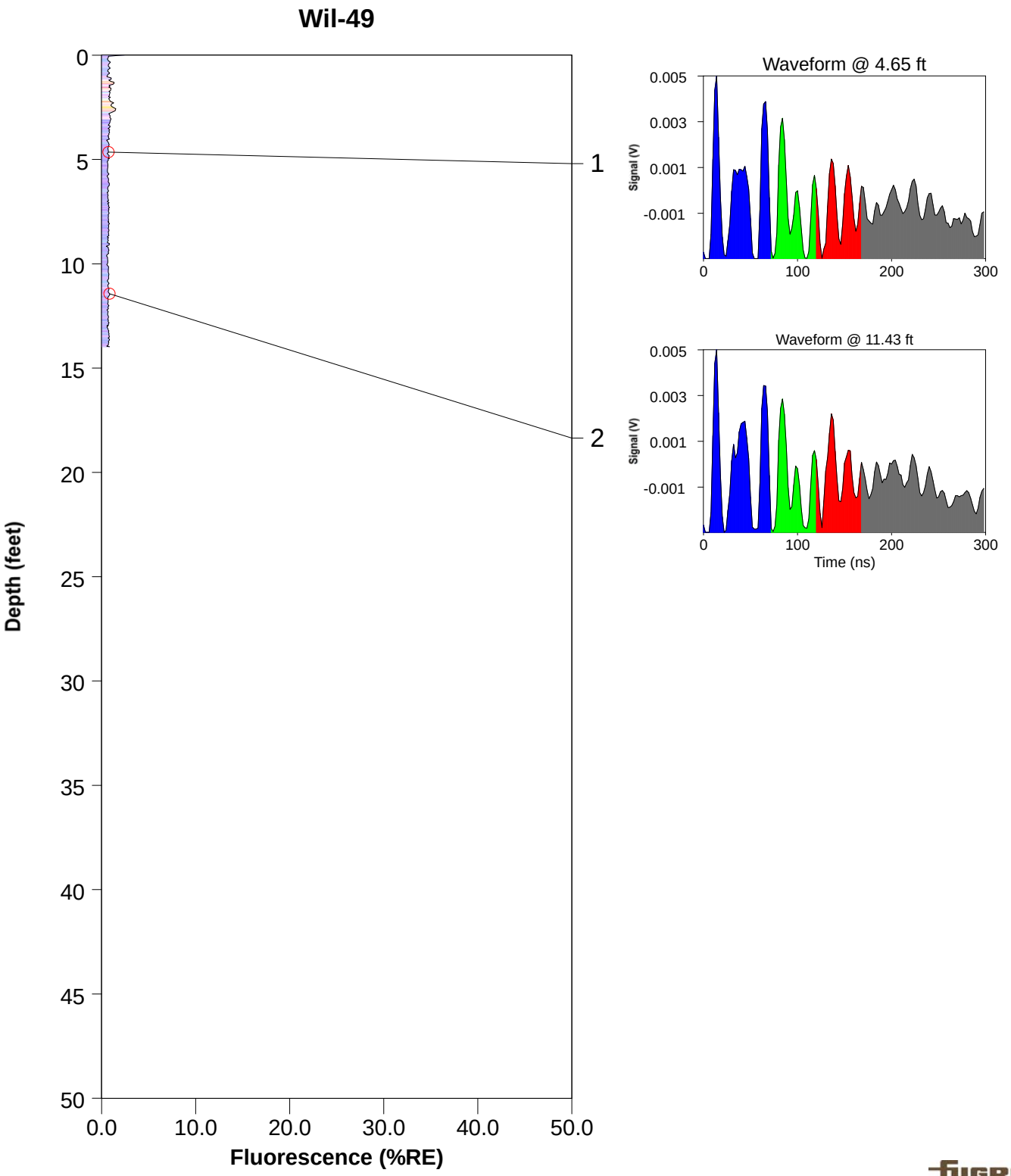
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/8/2015 @ 12:08:53 PM	Max fluorescence: 51.90% @ 22.51 ft
ROST Unit: 1	Final depth BGS: 24.39 ft



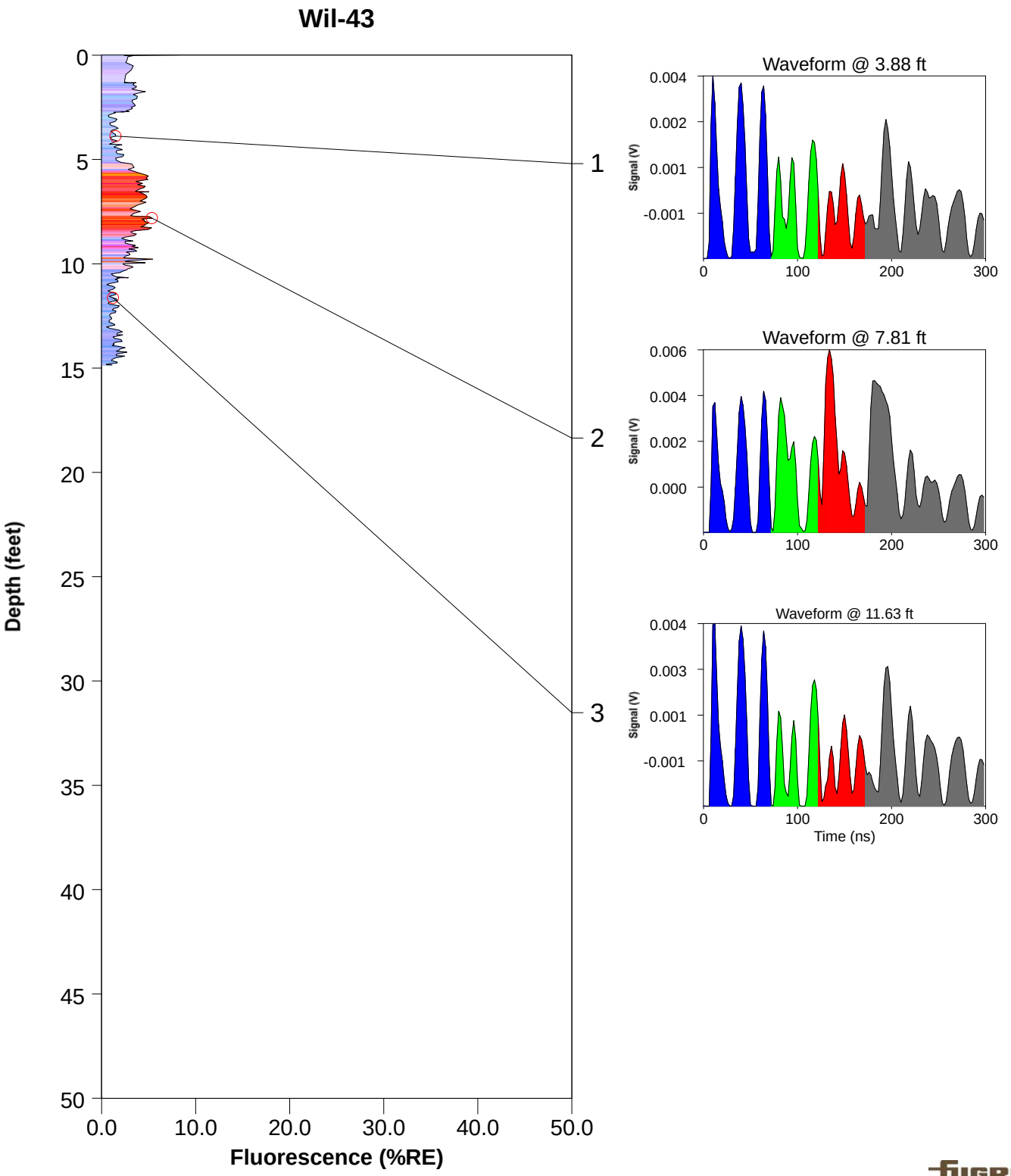
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/8/2015 @ 2:50:22 PM	Max fluorescence: 2.44% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 13.98 ft



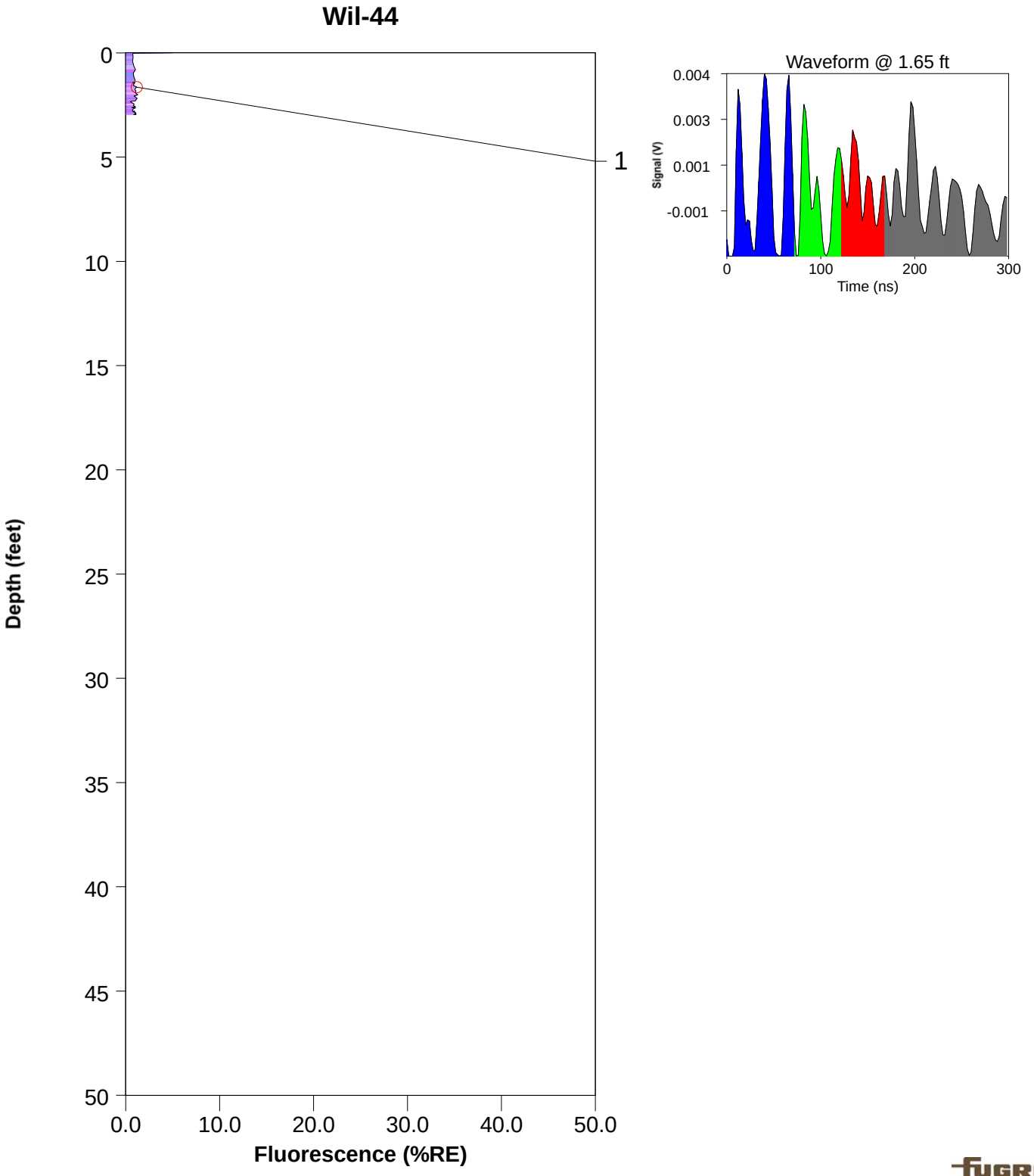
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/8/2015 @ 10:33:24 AM	Max fluorescence: 8.39% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 14.85 ft



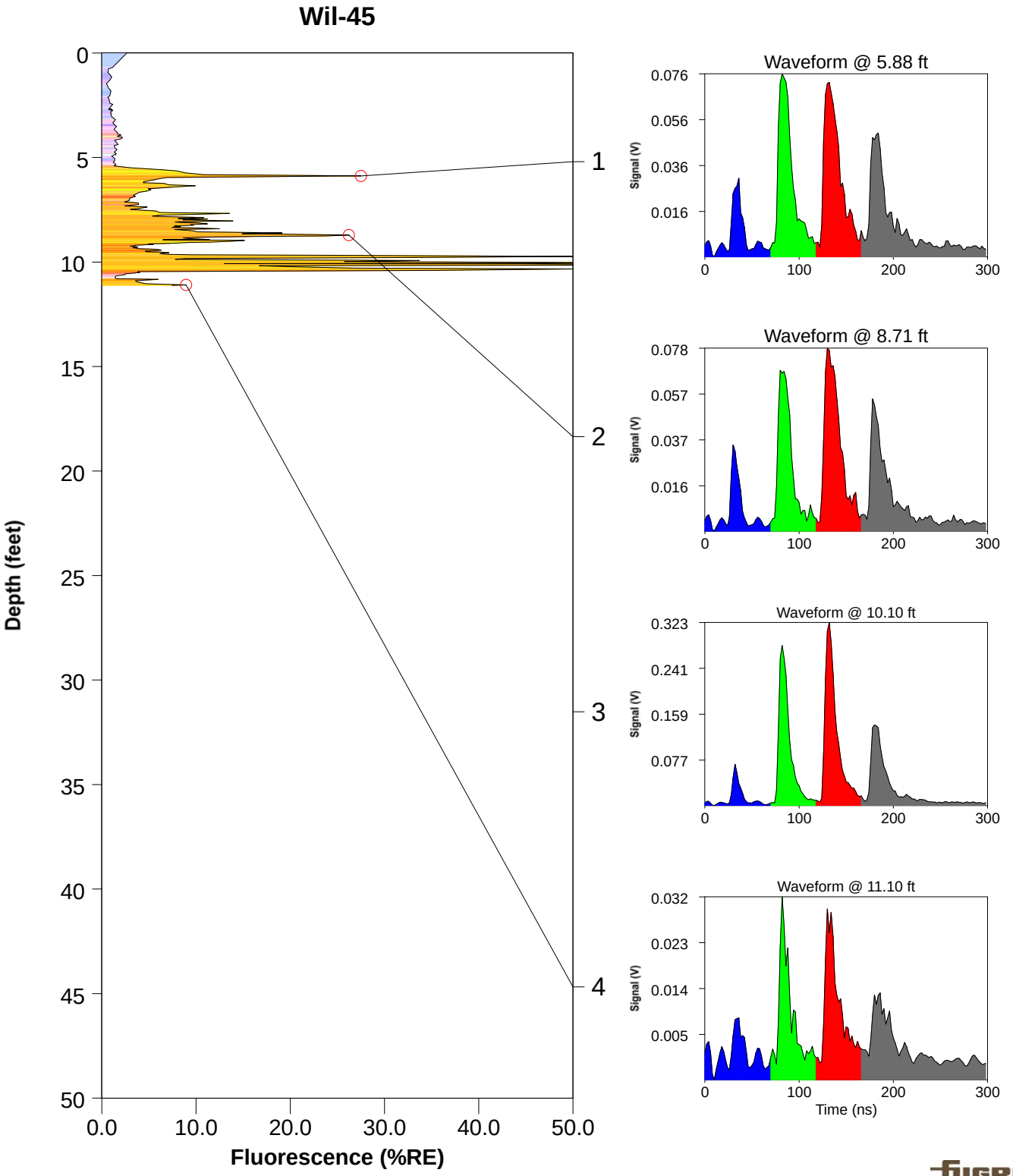
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/8/2015 @ 11:11:03 AM	Max fluorescence: 5.00% @ 0.00 ft
ROST Unit: ?	Final depth BGS: 2.97 ft



ROST Fluorescence Response Data

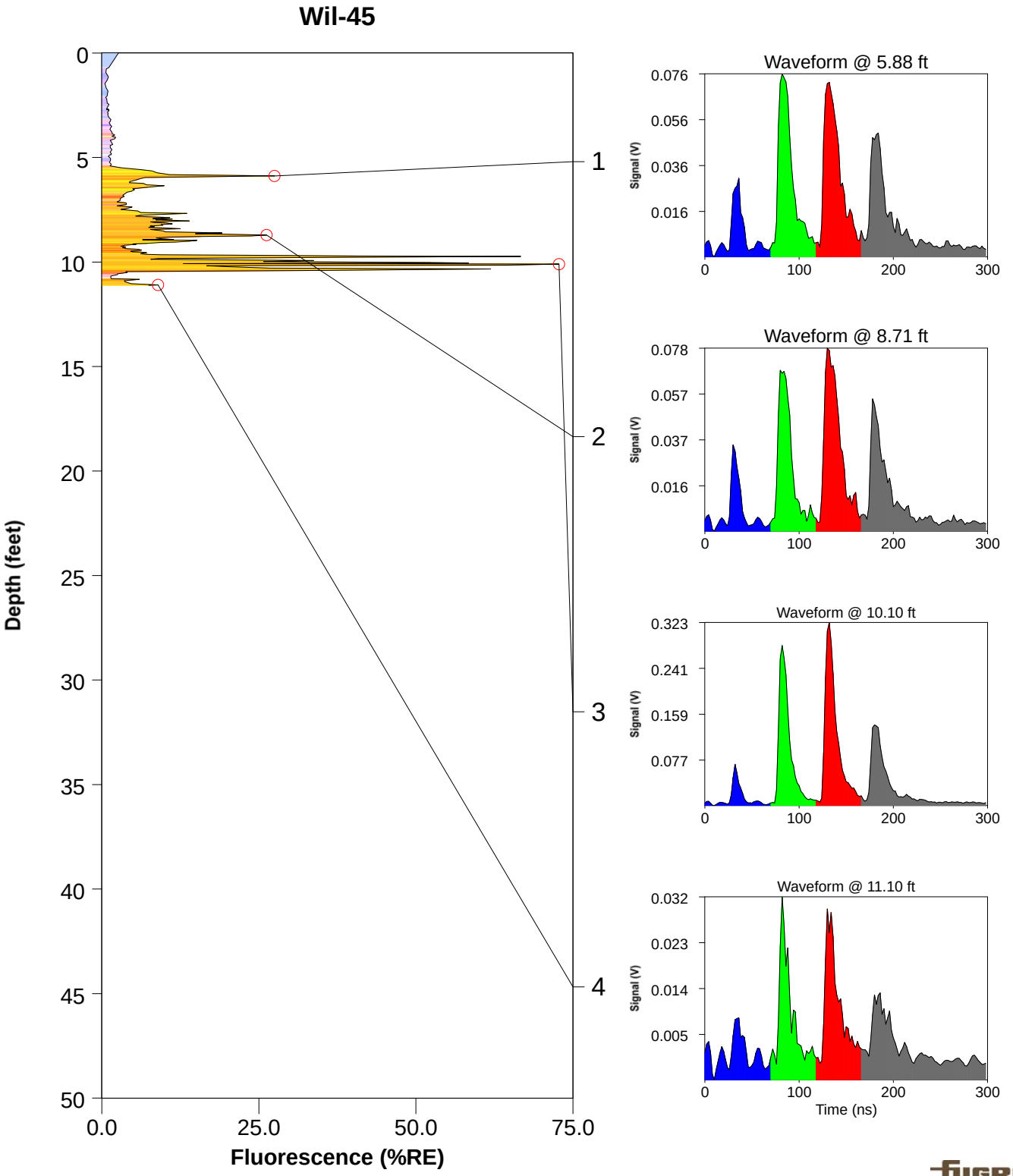
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 11:36:36 AM	Max fluorescence: 72.78% @ 10.10 ft
ROST Unit: 1	Final depth BGS: 11.12 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

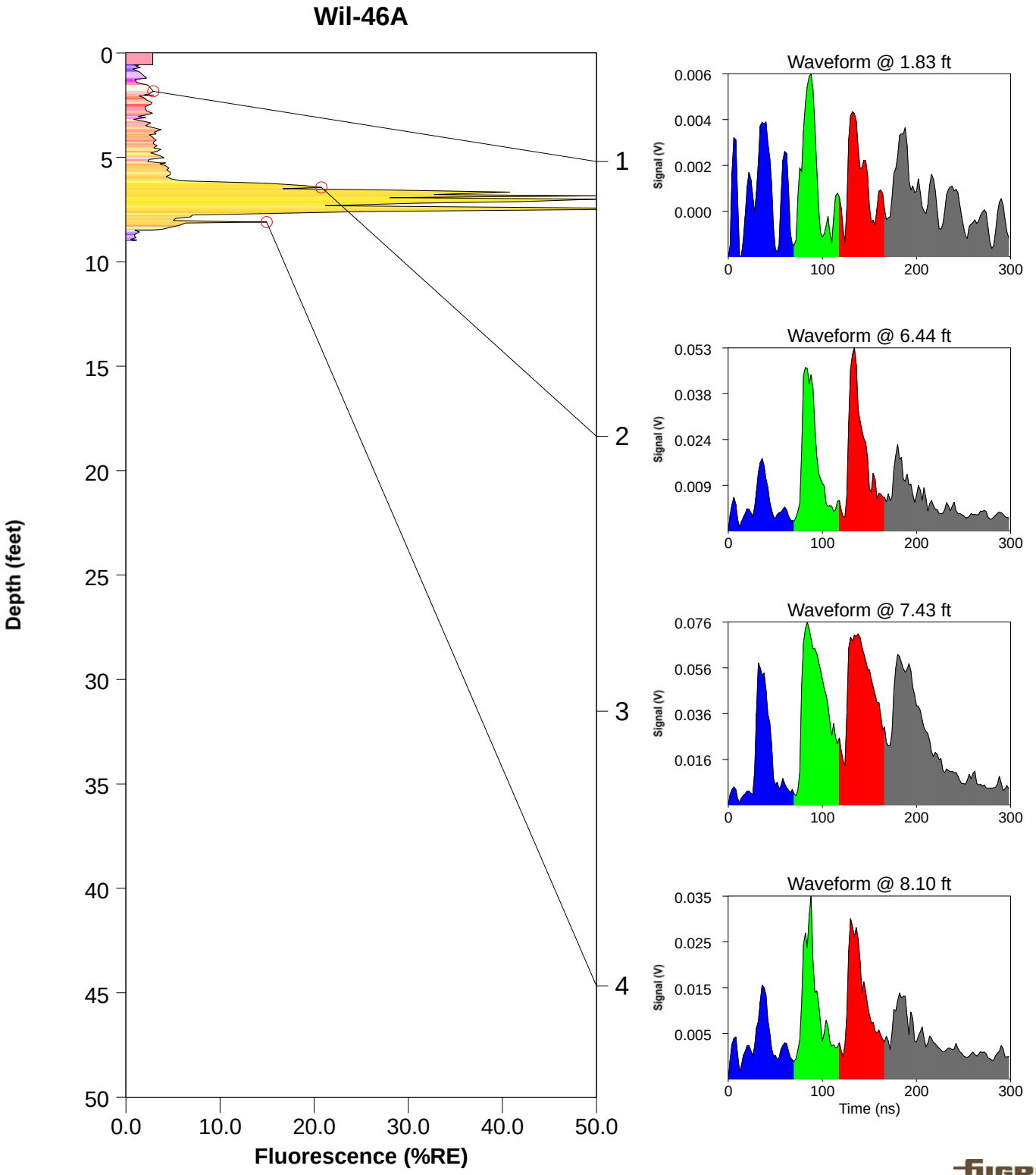
Site: Bristow, OK	Operator: Mitch Parris
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/9/2015 @ 11:36:36 AM	Max fluorescence: 72.78% @ 10.10 ft
ROST Unit: 1	Final depth BGS: 11.12 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

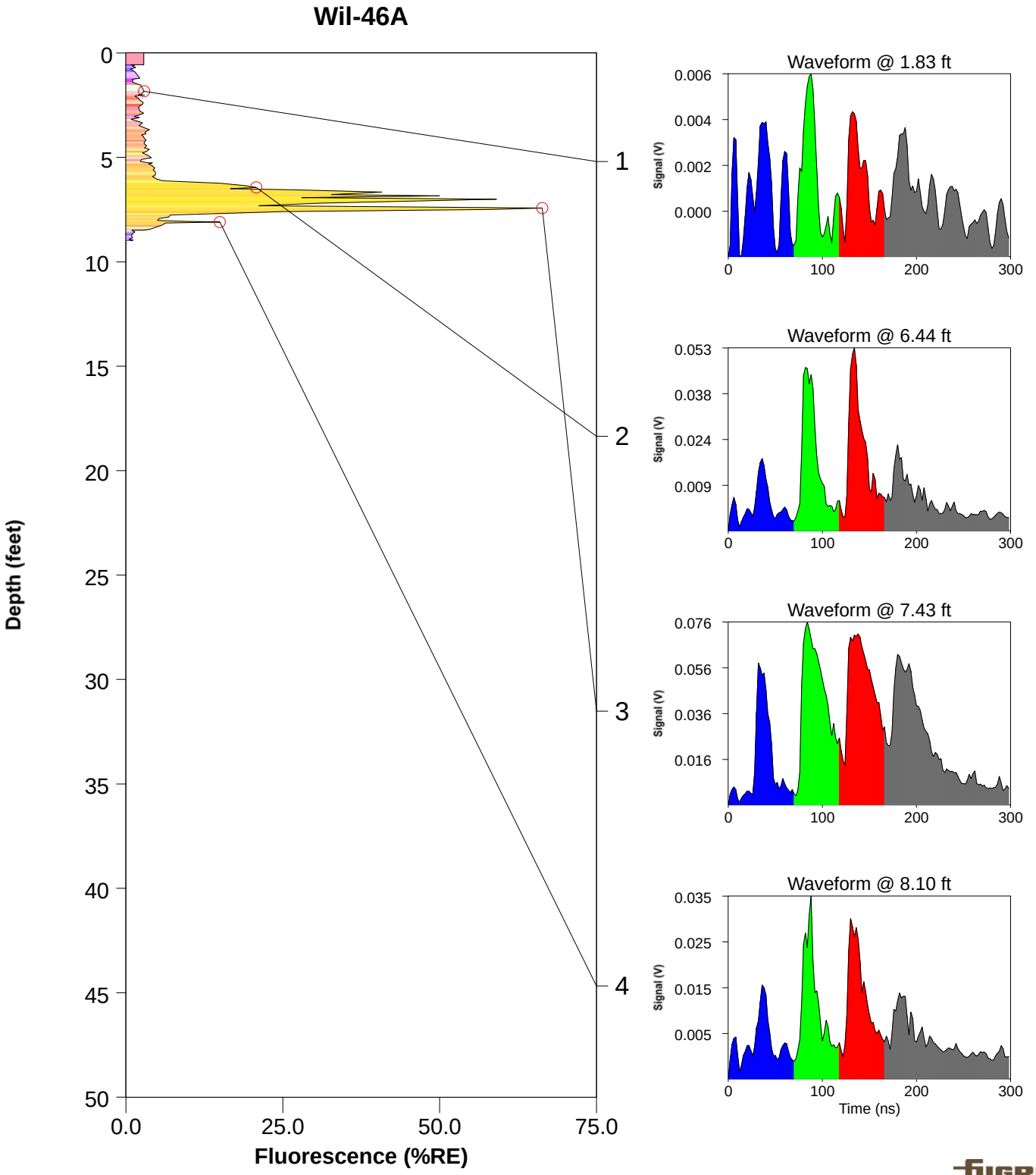
Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/9/2015 @ 10:02:54 AM	Max fluorescence: 66.36% @ 7.43 ft
ROST Unit: 1	Final depth BGS: 8.98 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

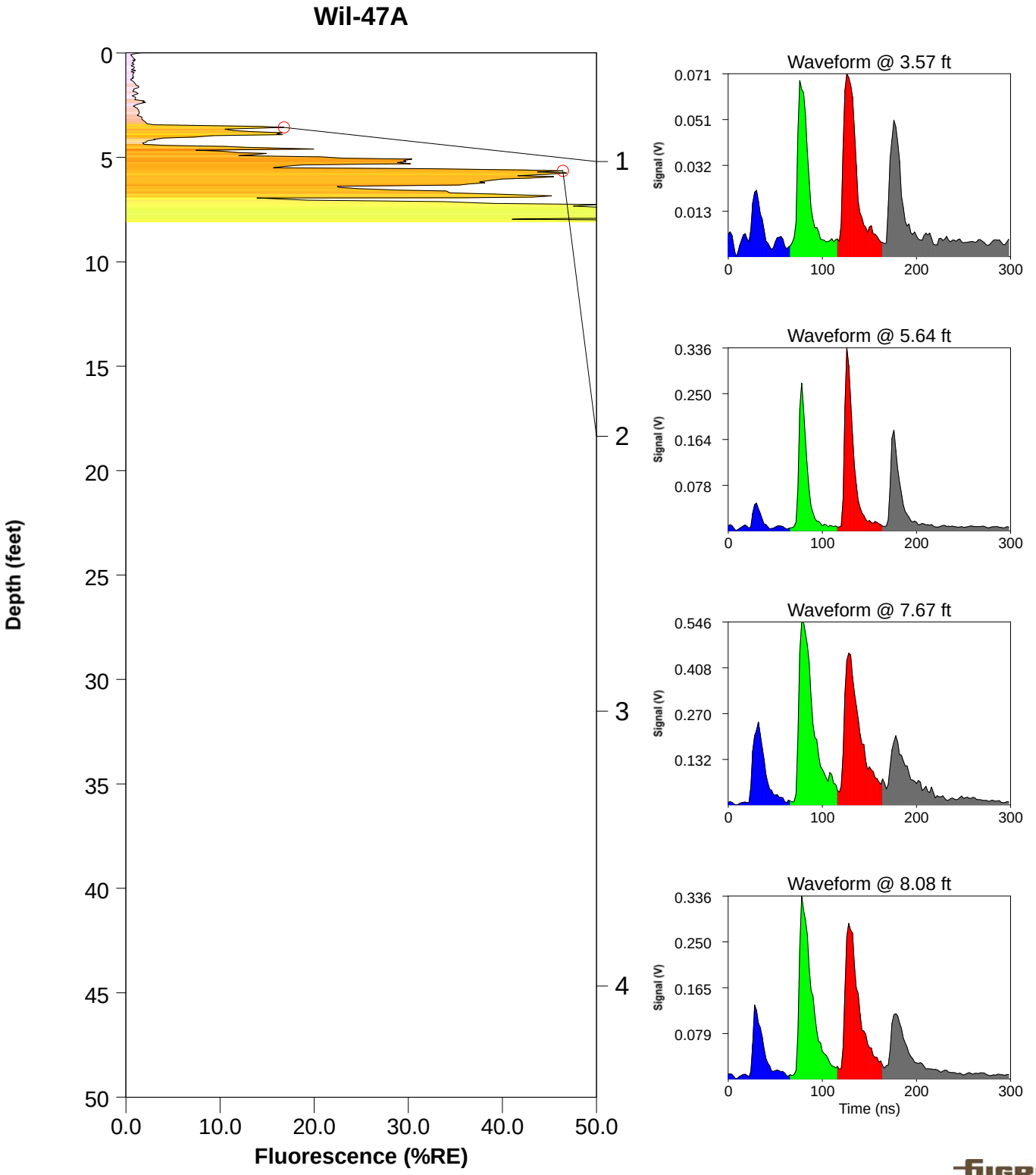
Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/9/2015 @ 10:02:54 AM	Max fluorescence: 66.36% @ 7.43 ft
ROST Unit: 1	Final depth BGS: 8.98 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

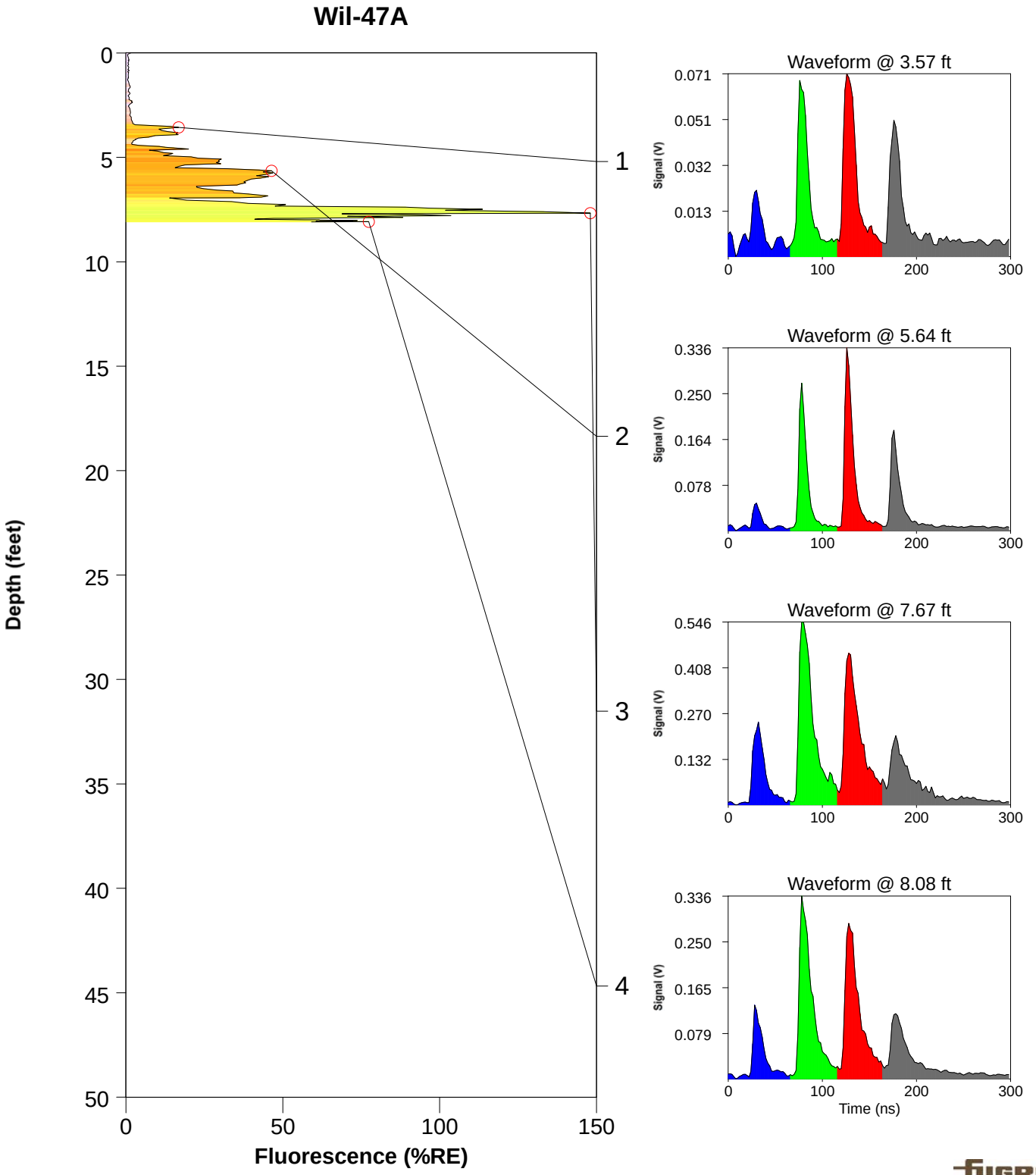
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/9/2015 @ 9:22:31 AM	Max fluorescence: 148.03% @ 7.67 ft
ROST Unit: 1	Final depth BGS: 8.09 ft



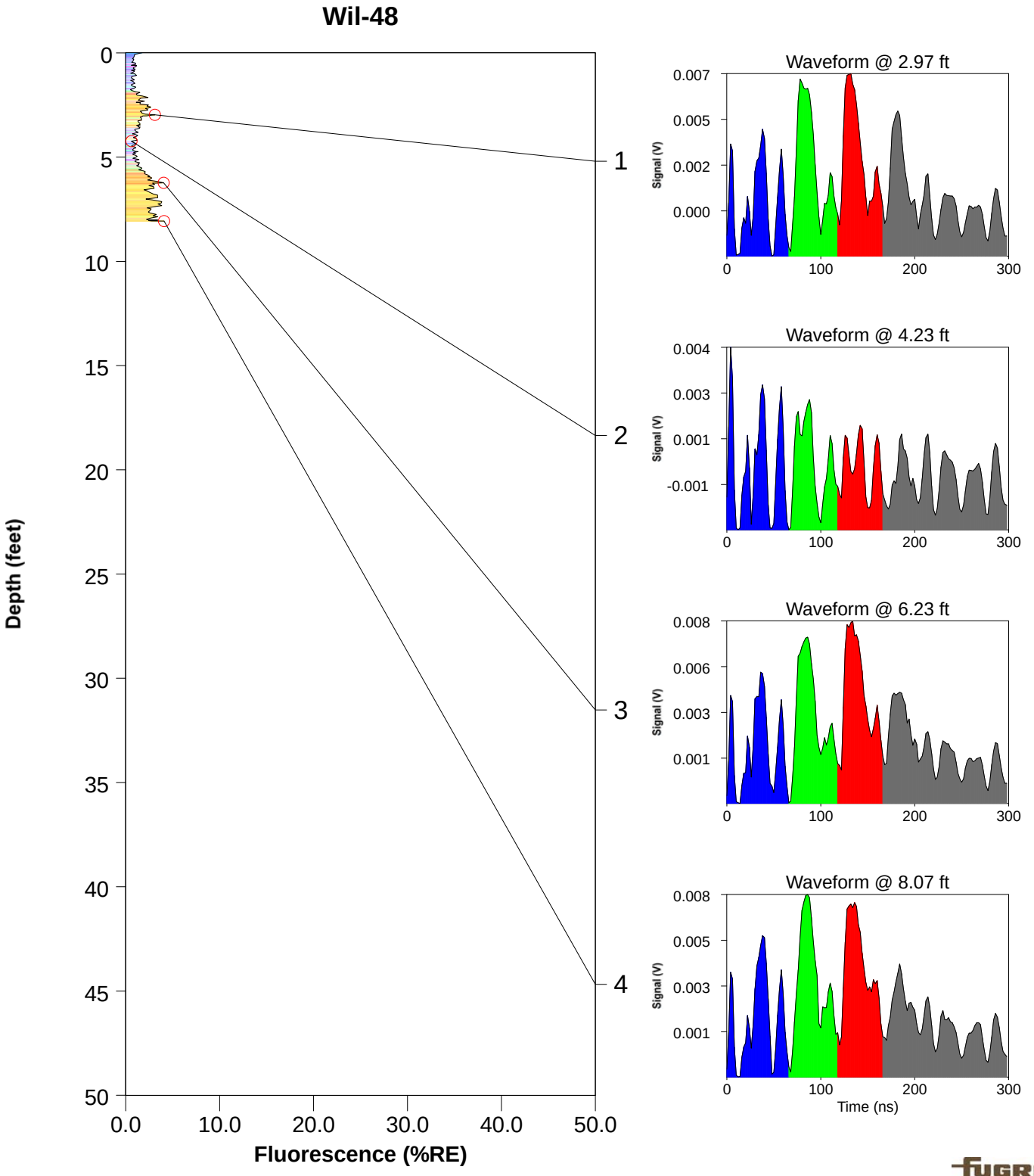
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/9/2015 @ 9:22:31 AM	Max fluorescence: 148.03% @ 7.67 ft
ROST Unit: 1	Final depth BGS: 8.09 ft



ROST Fluorescence Response Data

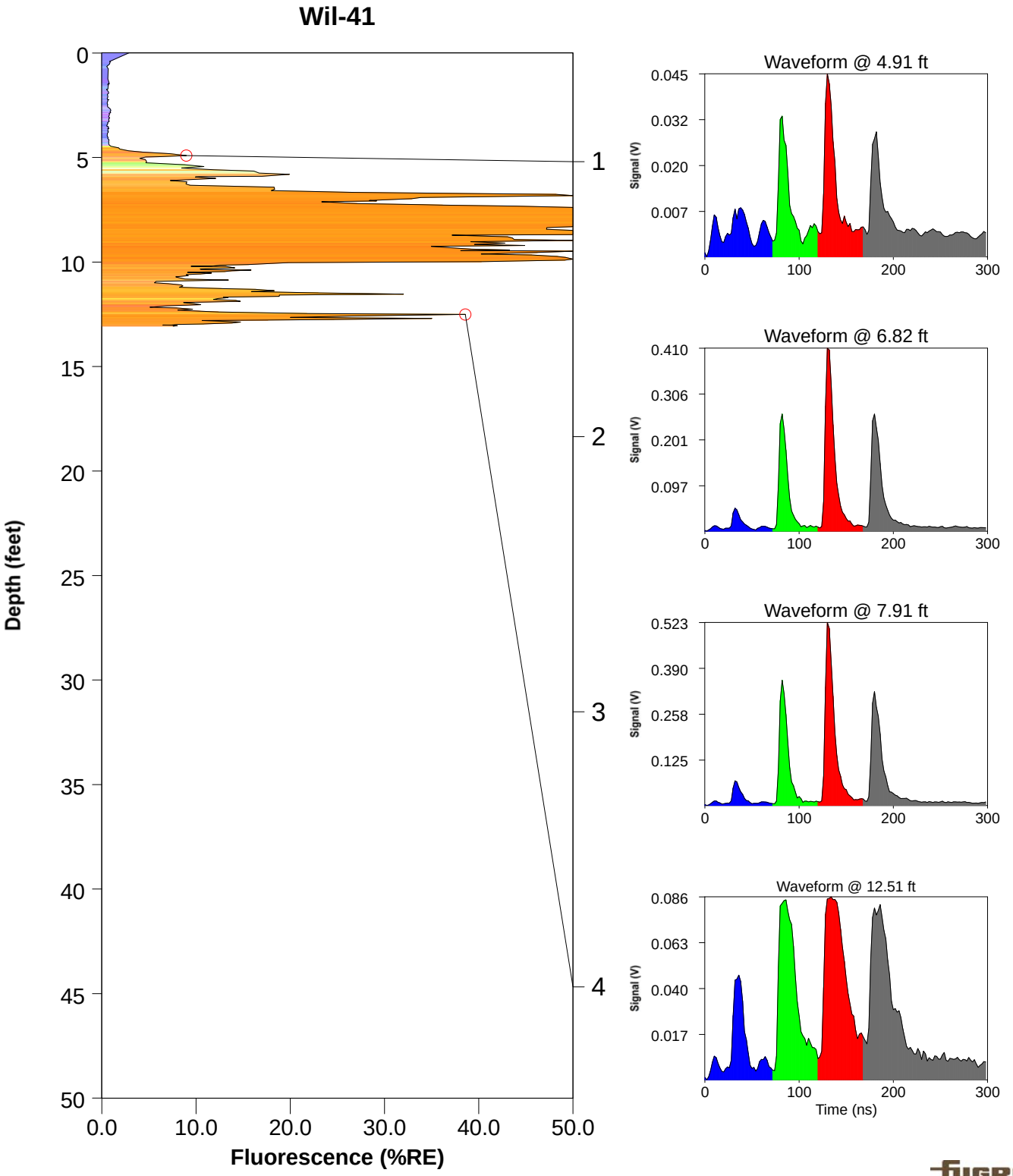
Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/9/2015 @ 8:56:45 AM	Max fluorescence: 4.08% @ 8.07 ft
ROST Unit: 1	Final depth BGS: 8.07 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

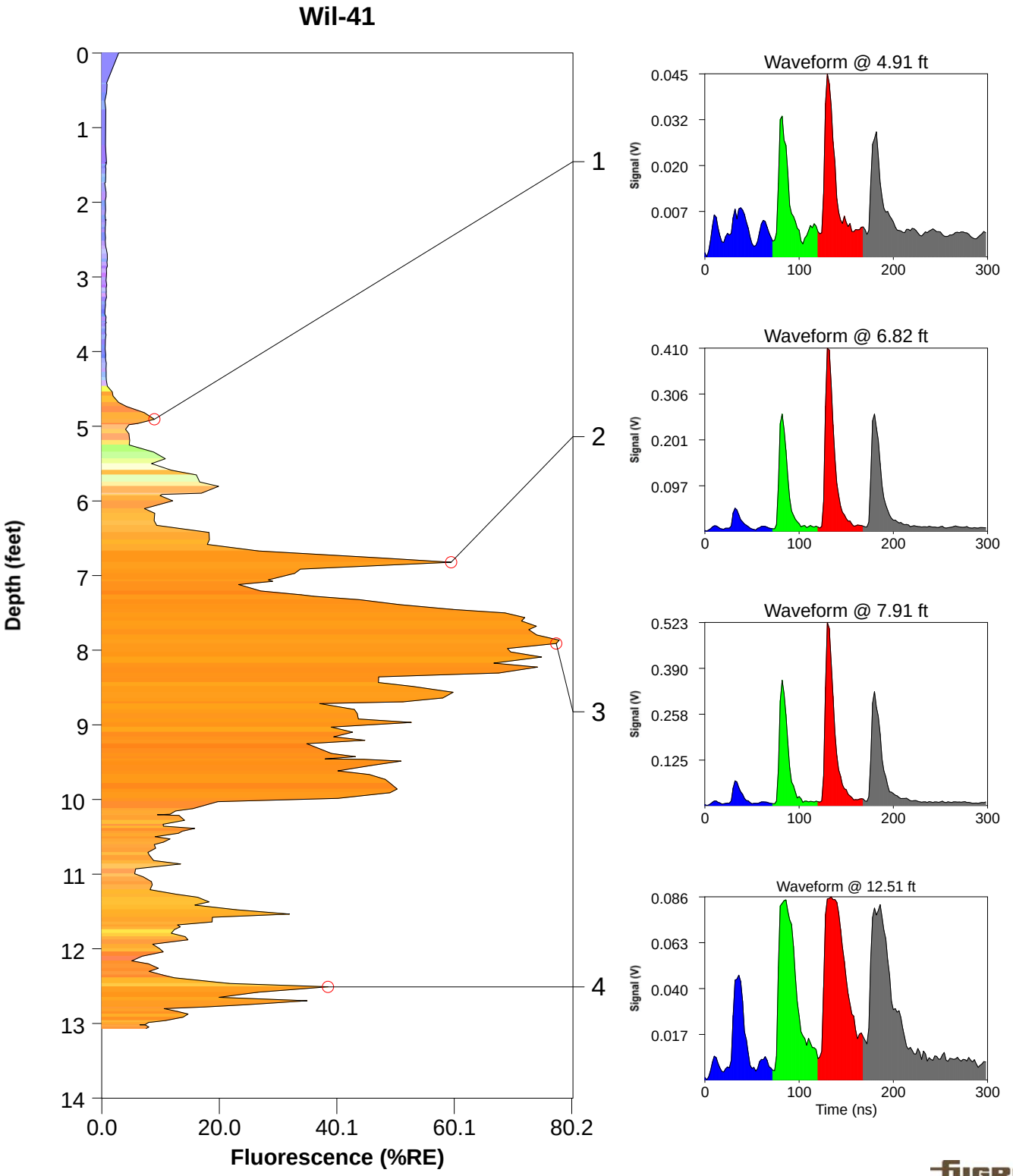
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/8/2015 @ 1:47:37 PM	Max fluorescence: 78.02% @ 7.87 ft
ROST Unit: ?	Final depth BGS: 13.07 ft



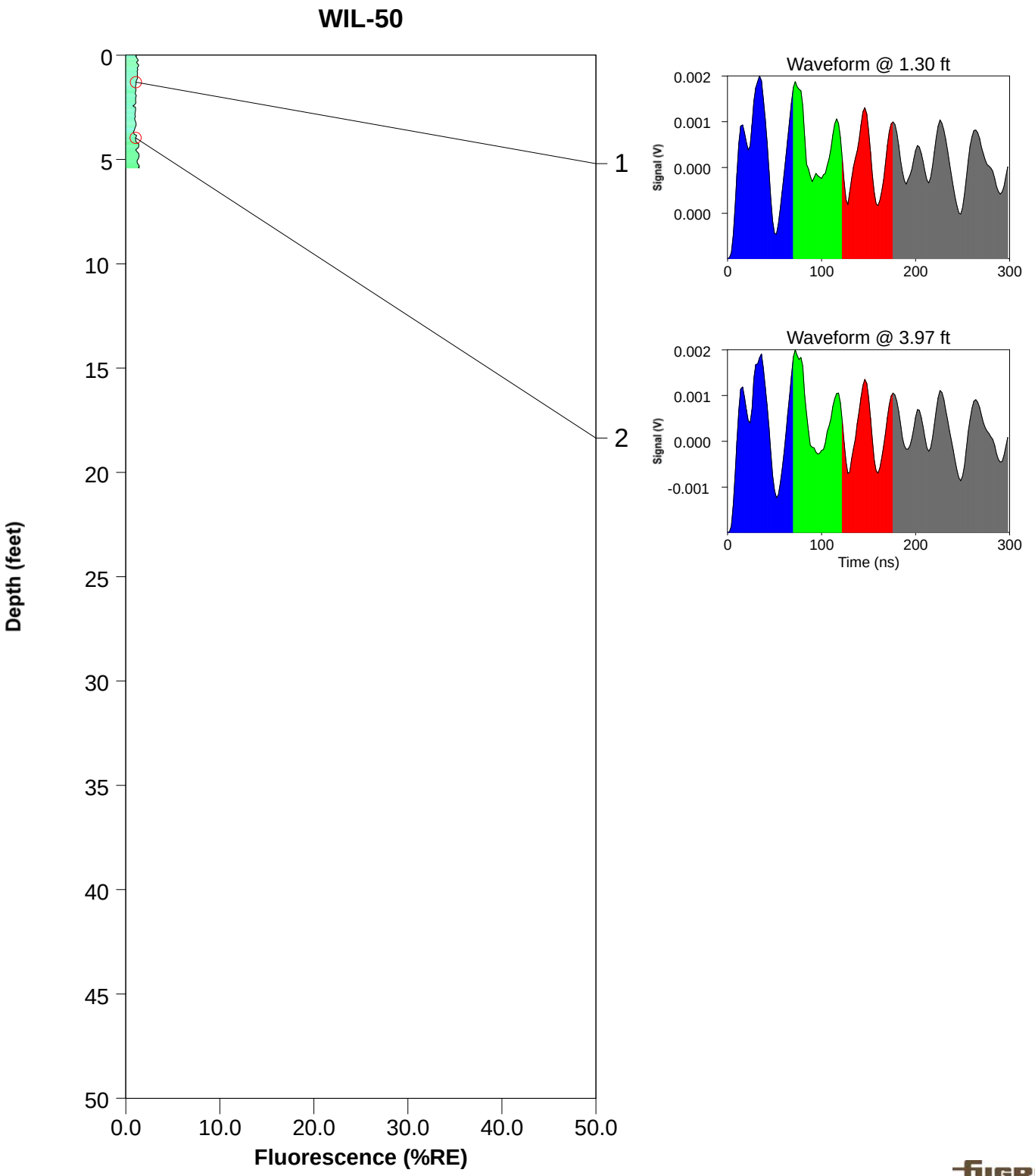
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Mitch Parras
Client: Lockheed Martin	Fugro Job #: 04-1915-0058
Date/Time: 12/8/2015 @ 1:47:37 PM	Max fluorescence: 78.02% @ 7.87 ft
ROST Unit: ?	Final depth BGS: 13.07 ft



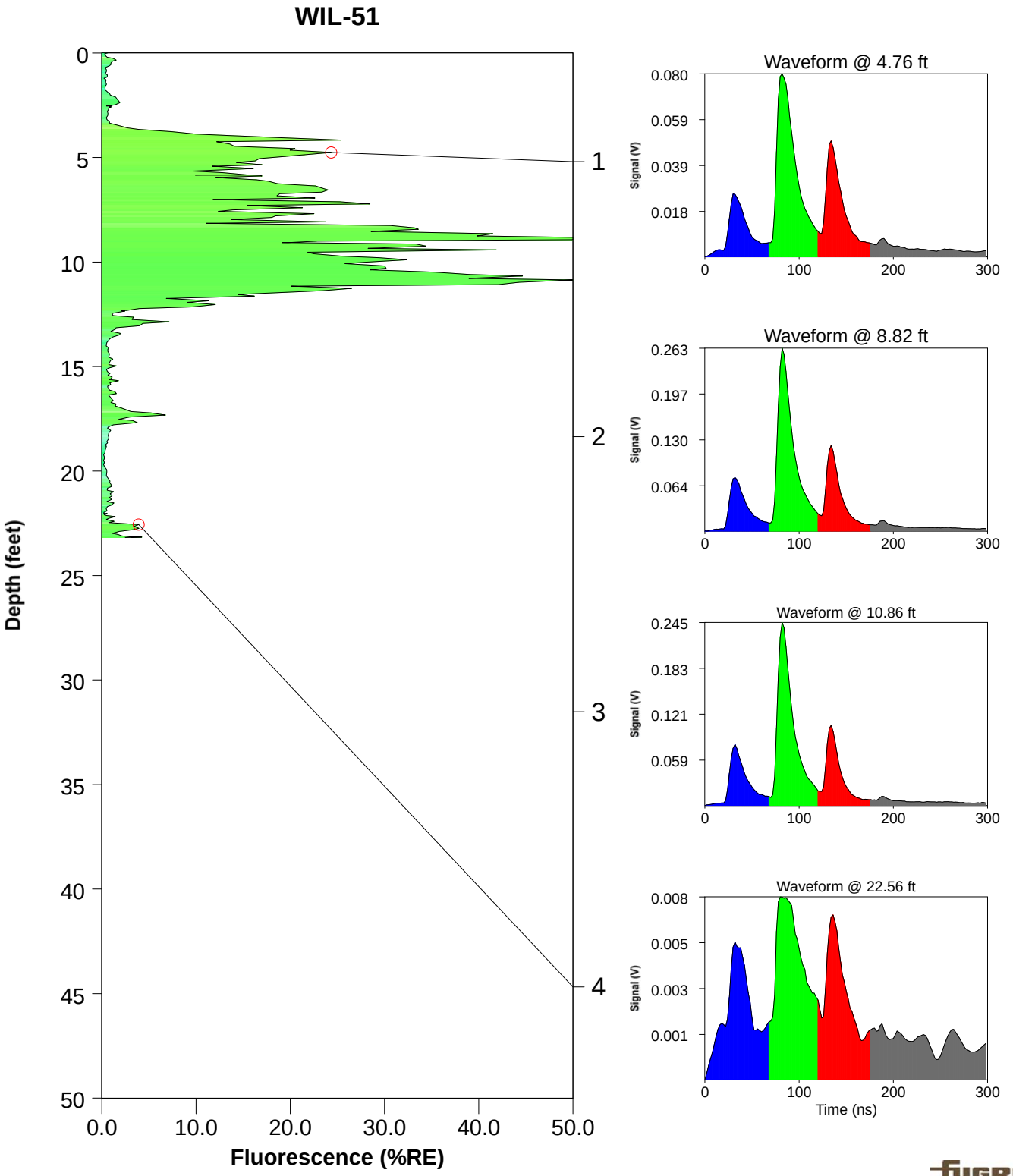
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 9:35:07 AM	Max fluorescence: 1.45% @ 5.32 ft
ROST Unit: 2	Final depth BGS: 5.41 ft



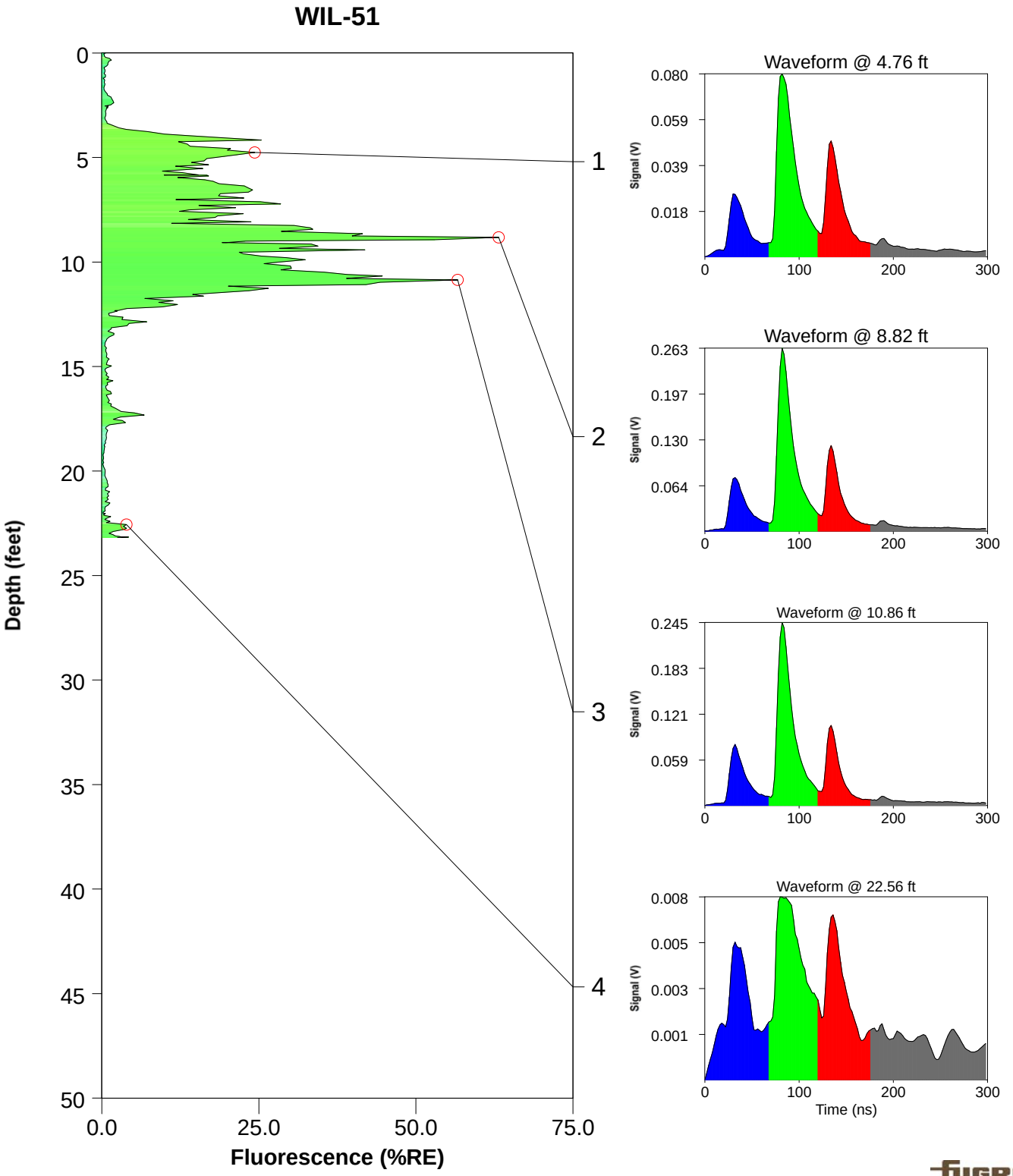
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 9:48:13 AM	Max fluorescence: 63.17% @ 8.82 ft
ROST Unit: 2	Final depth BGS: 23.18 ft



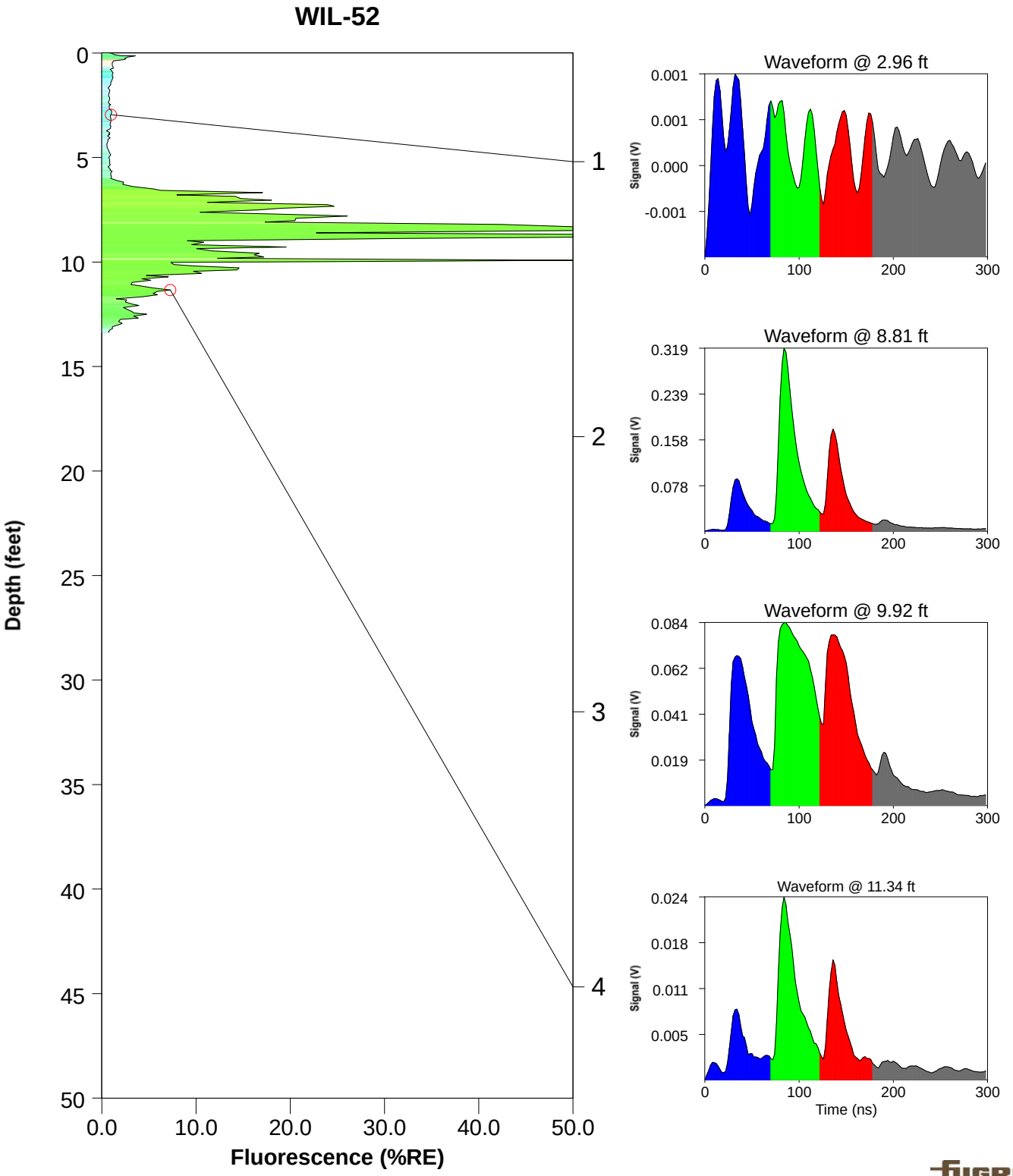
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 9:48:13 AM	Max fluorescence: 63.17% @ 8.82 ft
ROST Unit: 2	Final depth BGS: 23.18 ft



ROST Fluorescence Response Data

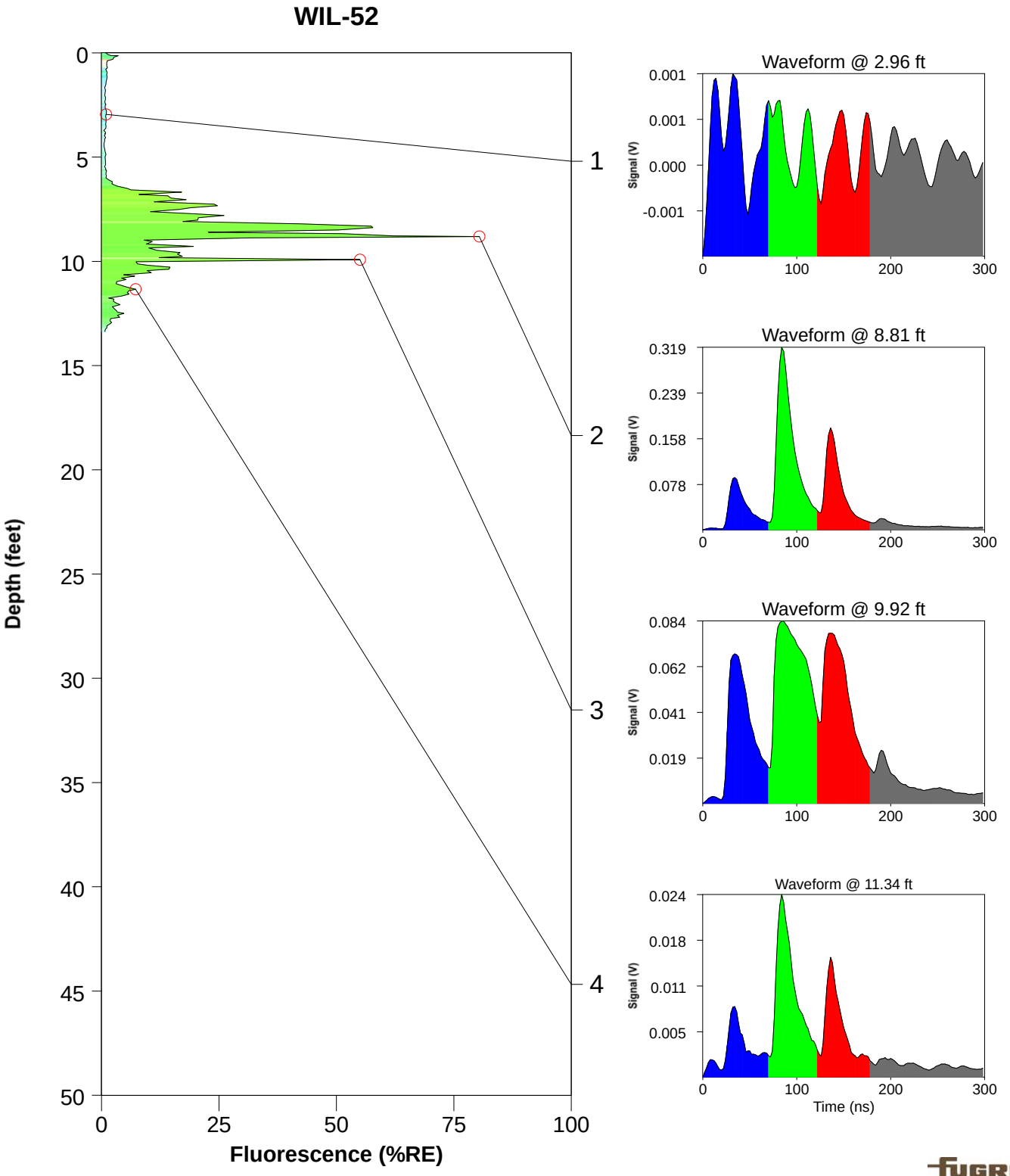
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 10:09:19 AM	Max fluorescence: 80.44% @ 8.81 ft
ROST Unit: 2	Final depth BGS: 13.37 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

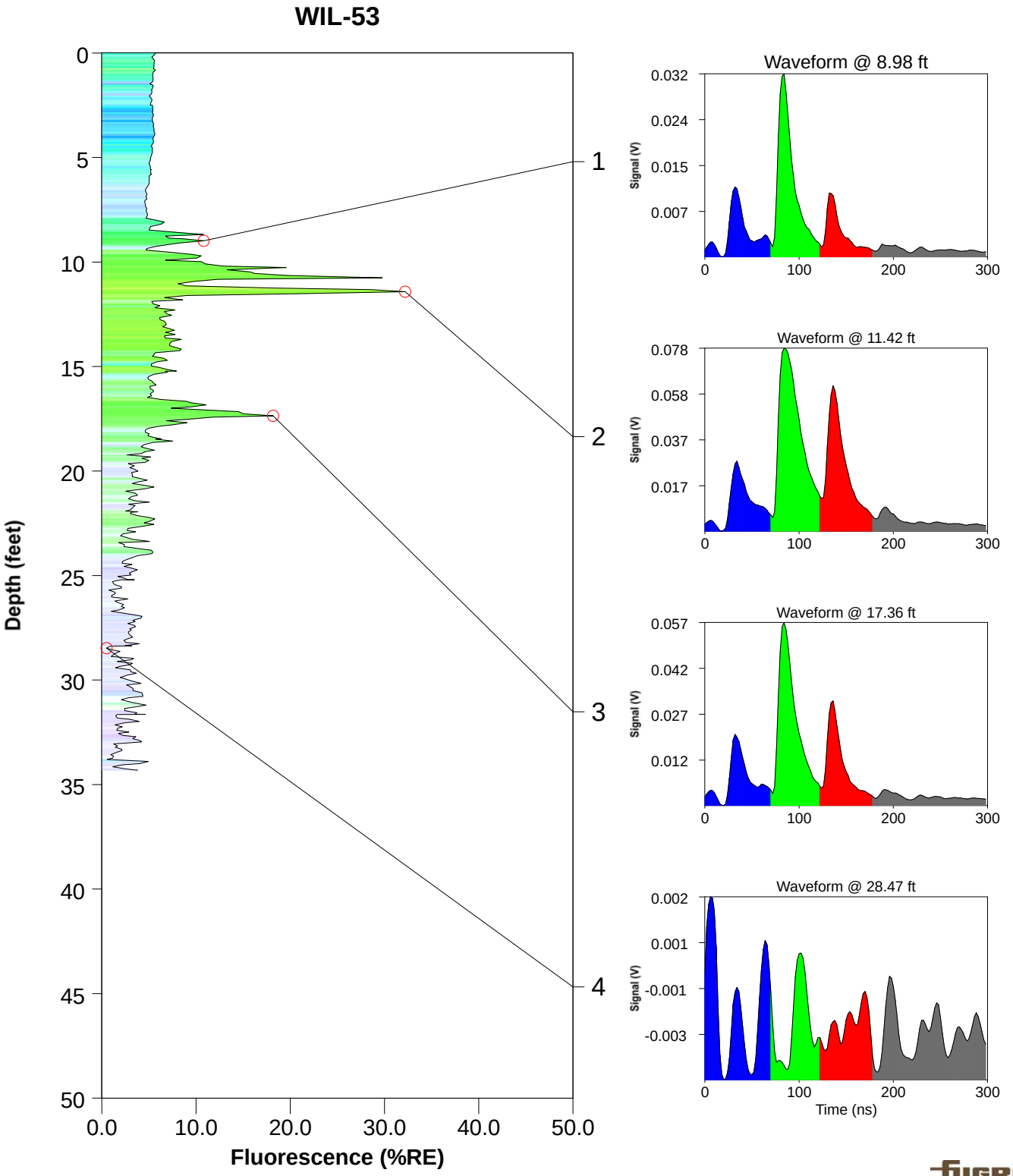
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 10:09:19 AM	Max fluorescence: 80.44% @ 8.81 ft
ROST Unit: 2	Final depth BGS: 13.37 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

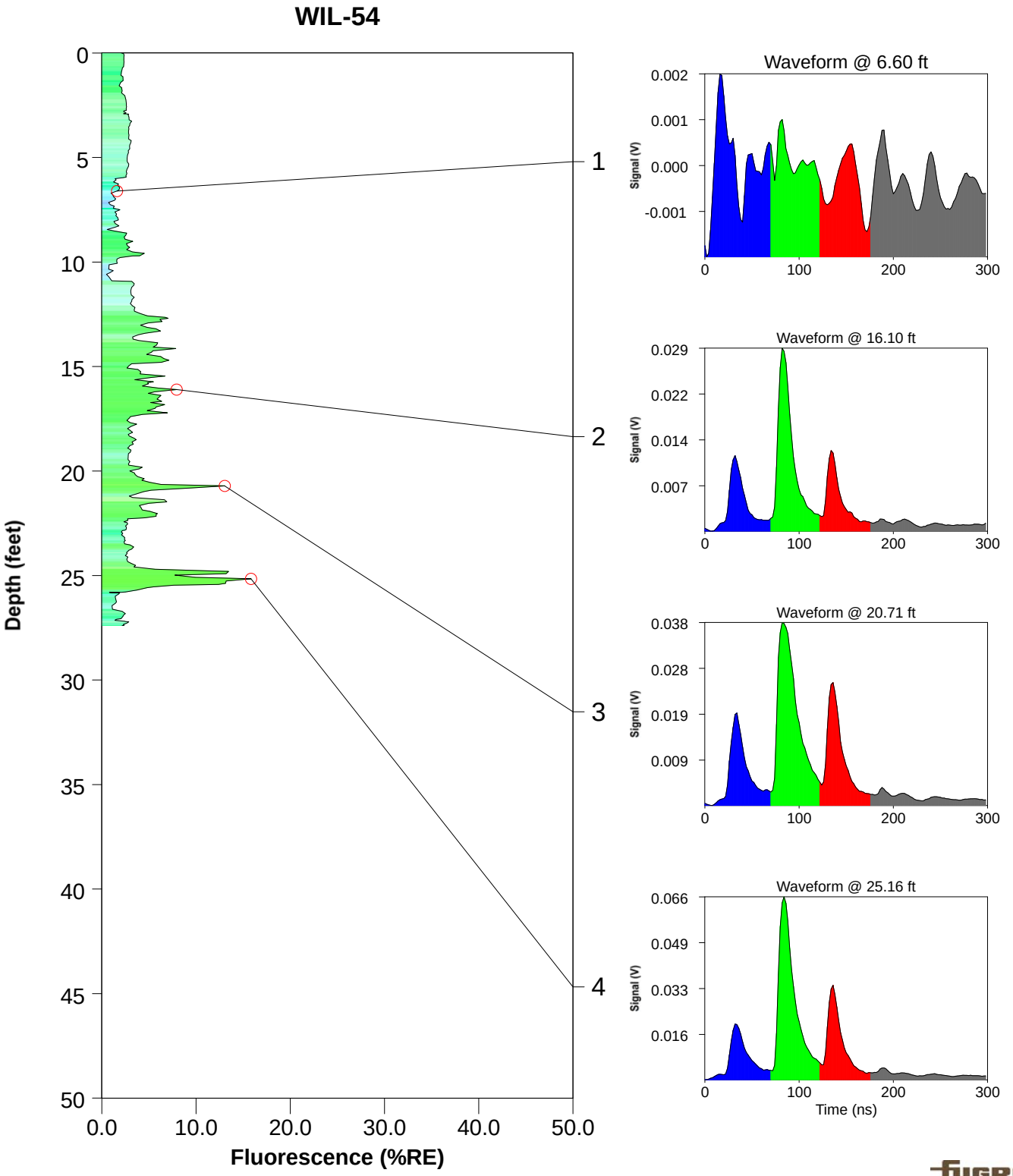
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 10:25:38 AM	Max fluorescence: 32.19% @ 11.42 ft
ROST Unit: 2	Final depth BGS: 34.31 ft



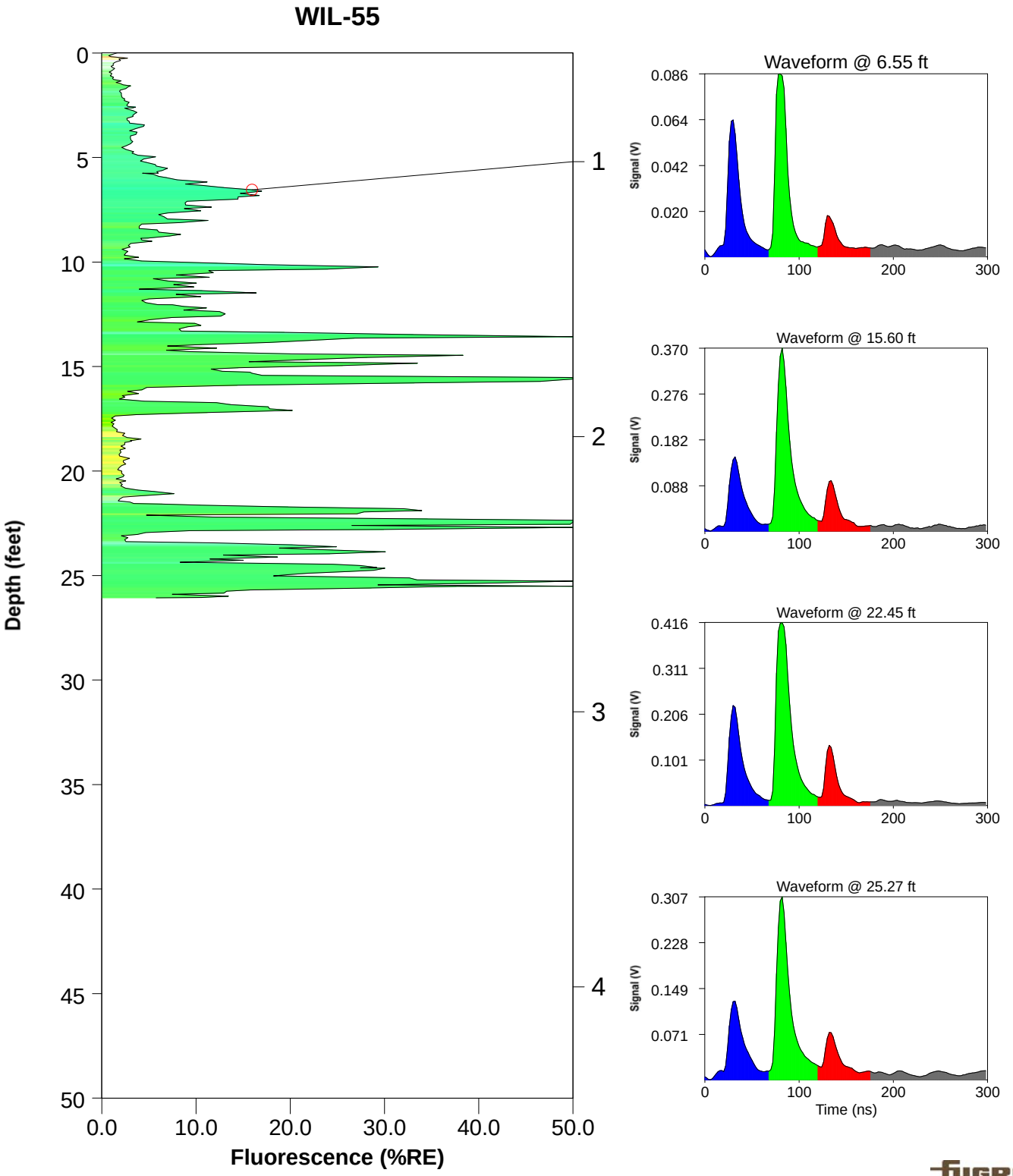
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 11:00:44 AM	Max fluorescence: 15.83% @ 25.16 ft
ROST Unit: 2	Final depth BGS: 27.39 ft



ROST Fluorescence Response Data

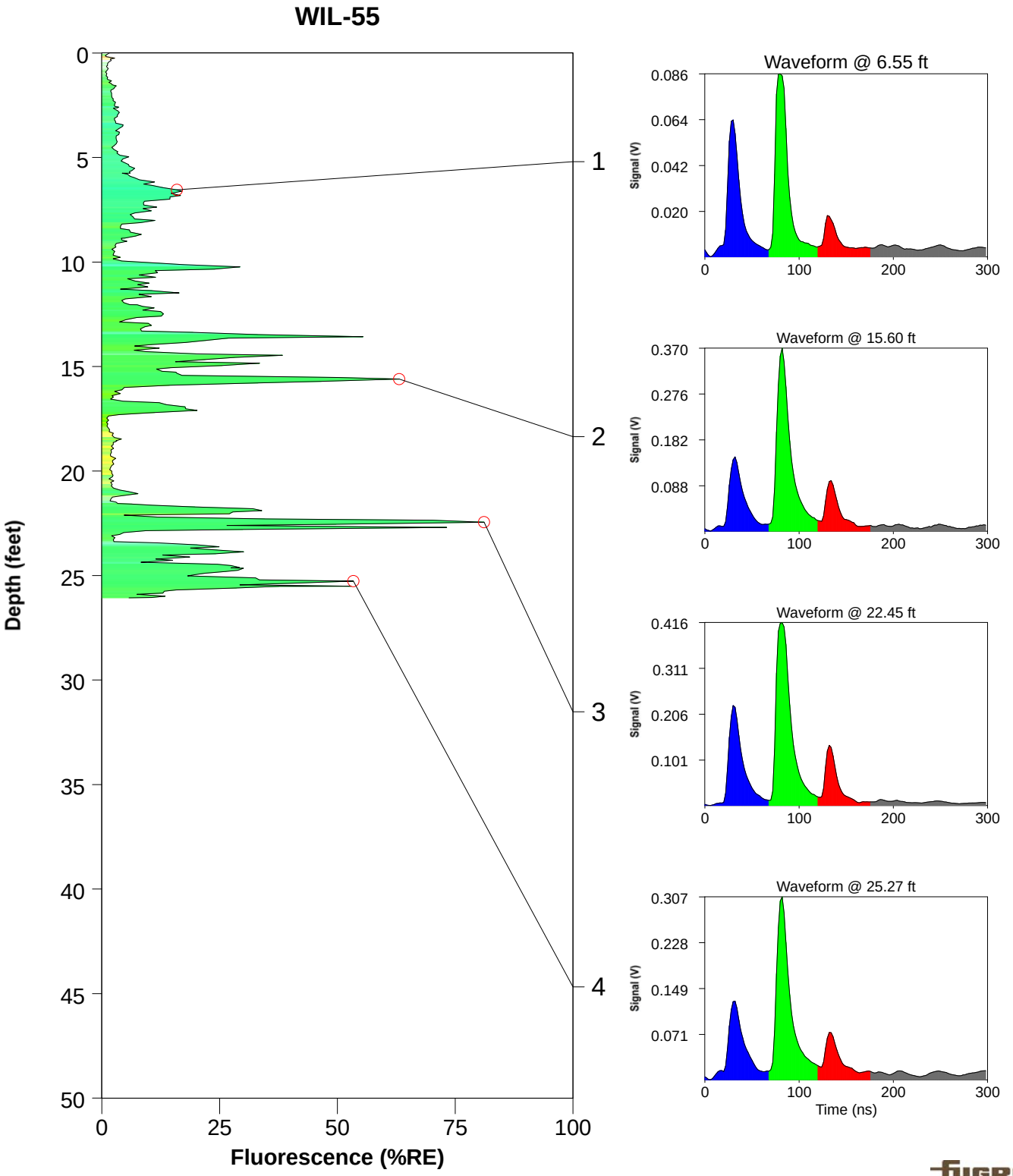
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 3:47:12 PM	Max fluorescence: 81.12% @ 22.45 ft
ROST Unit: 2	Final depth BGS: 26.07 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

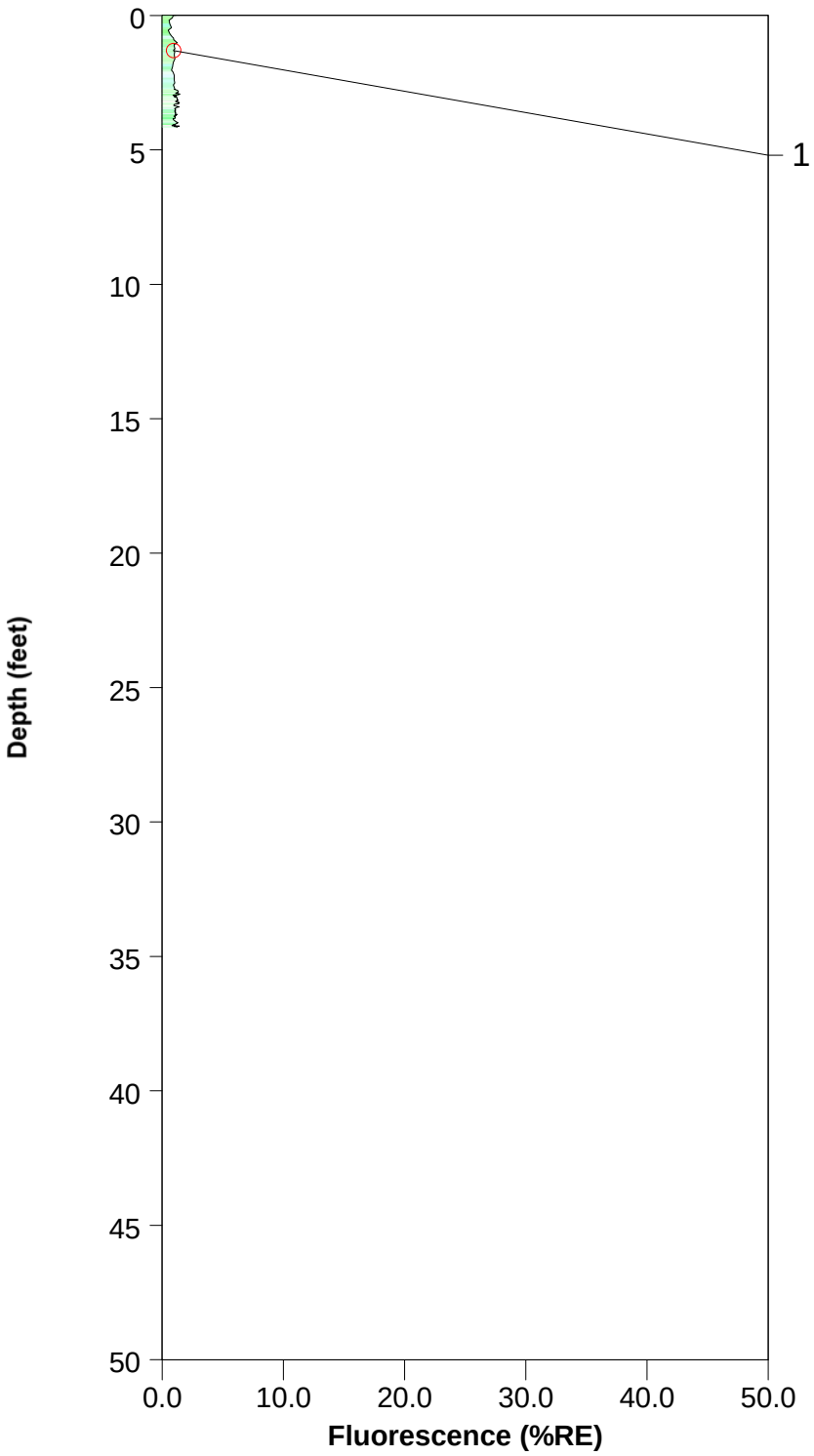
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 3:47:12 PM	Max fluorescence: 81.12% @ 22.45 ft
ROST Unit: 2	Final depth BGS: 26.07 ft

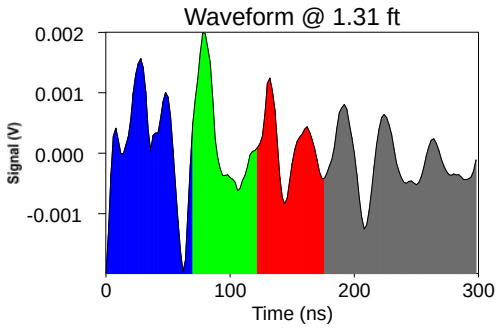


ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 12:29:30 PM	Max fluorescence: 1.46% @ 2.93 ft
ROST Unit: 2	Final depth BGS: 4.16 ft

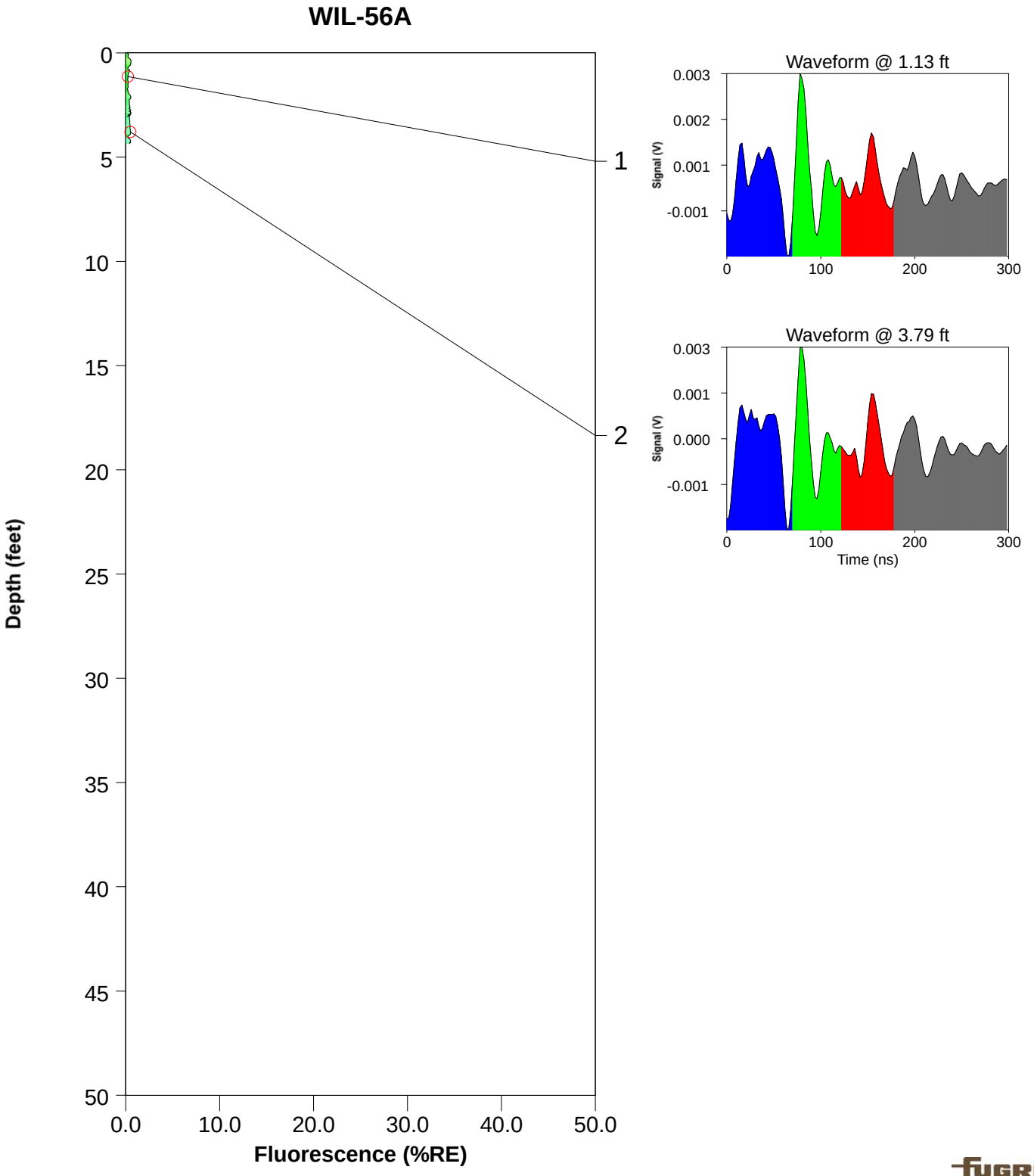
WIL-56





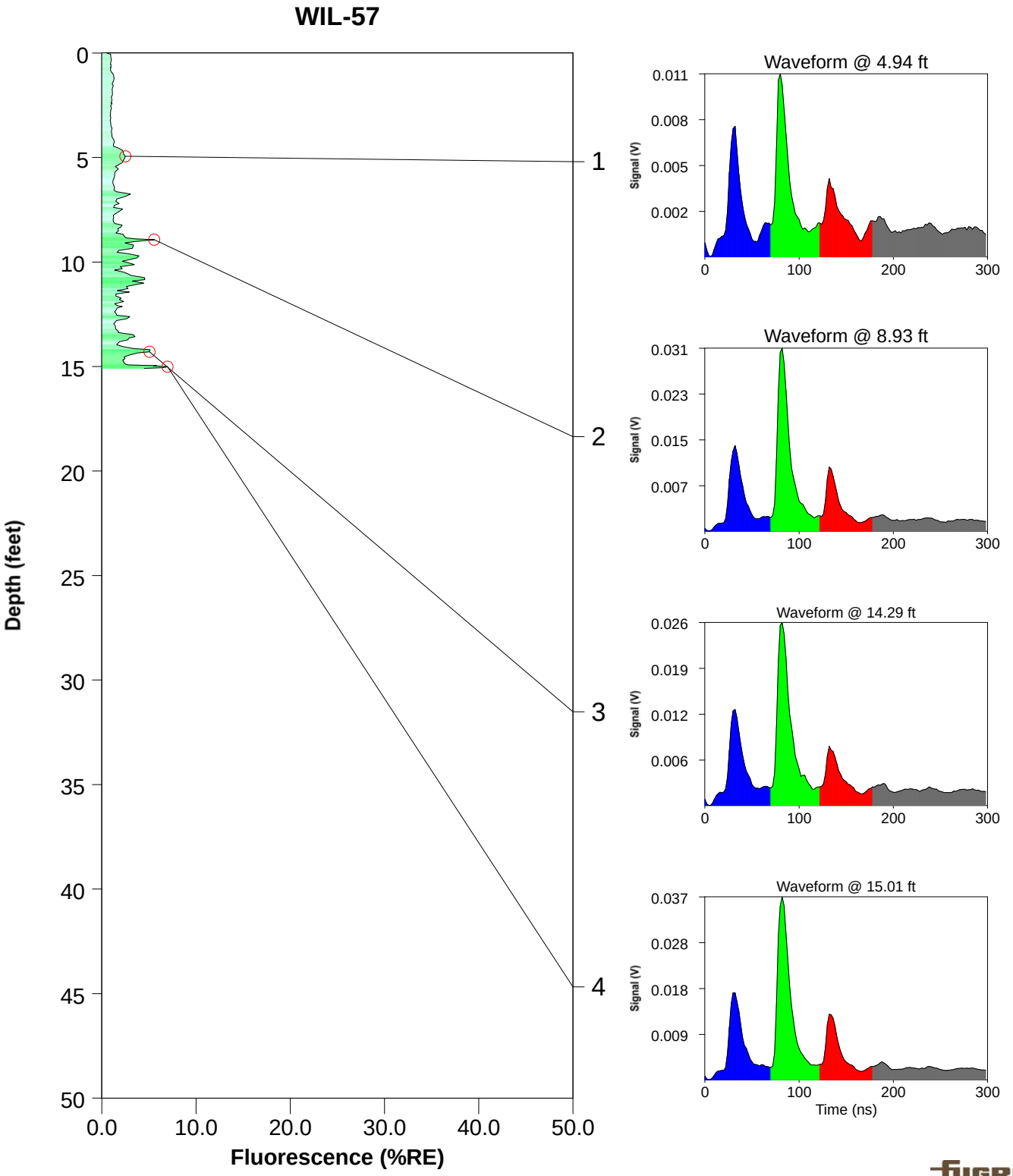
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 12:51:11 PM	Max fluorescence: 0.58% @ 2.92 ft
ROST Unit: 2	Final depth BGS: 4.34 ft



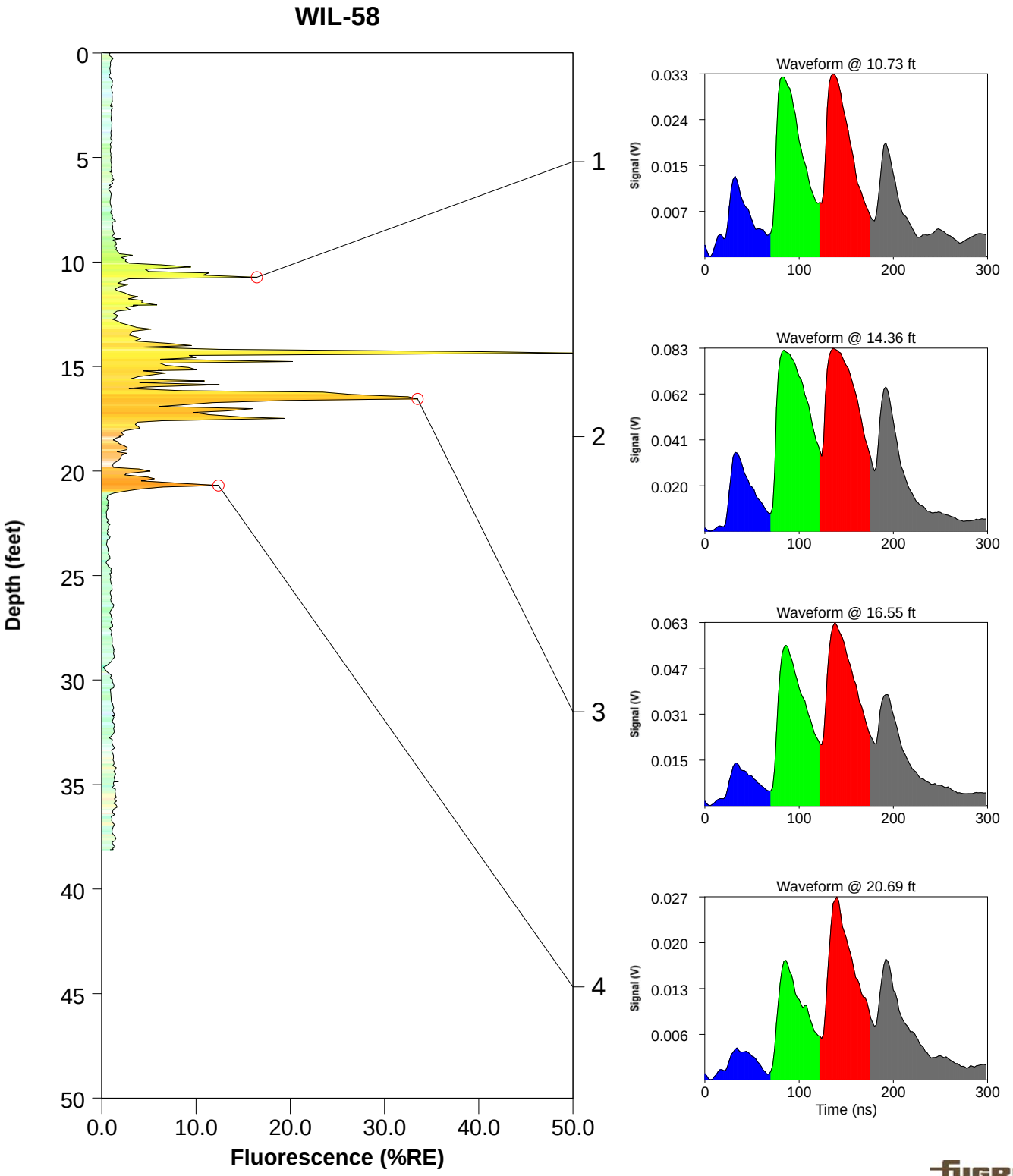
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 11:32:42 AM	Max fluorescence: 6.97% @ 15.01 ft
ROST Unit: 2	Final depth BGS: 15.09 ft



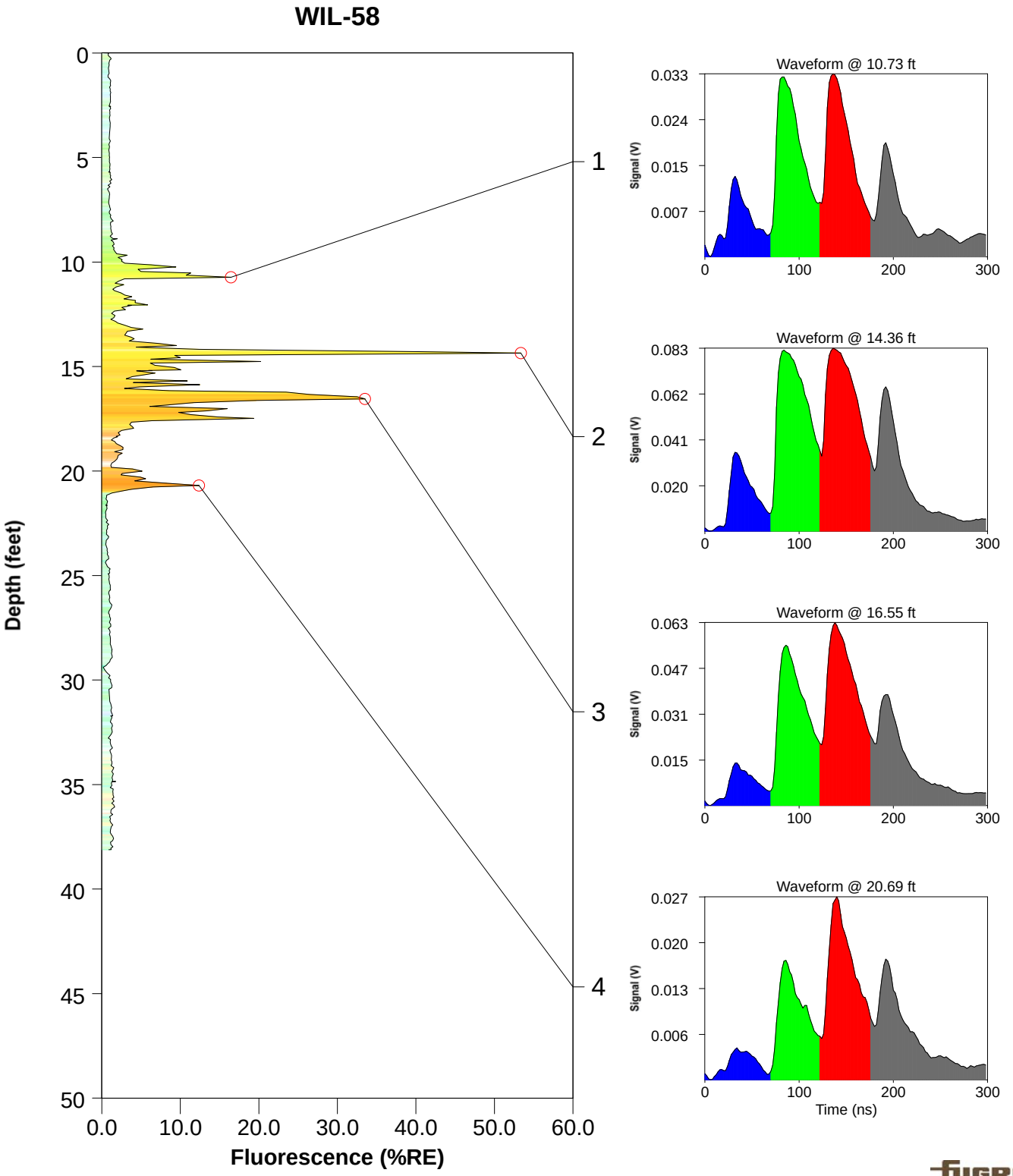
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 3:16:18 PM	Max fluorescence: 53.36% @ 14.36 ft
ROST Unit: 2	Final depth BGS: 38.11 ft



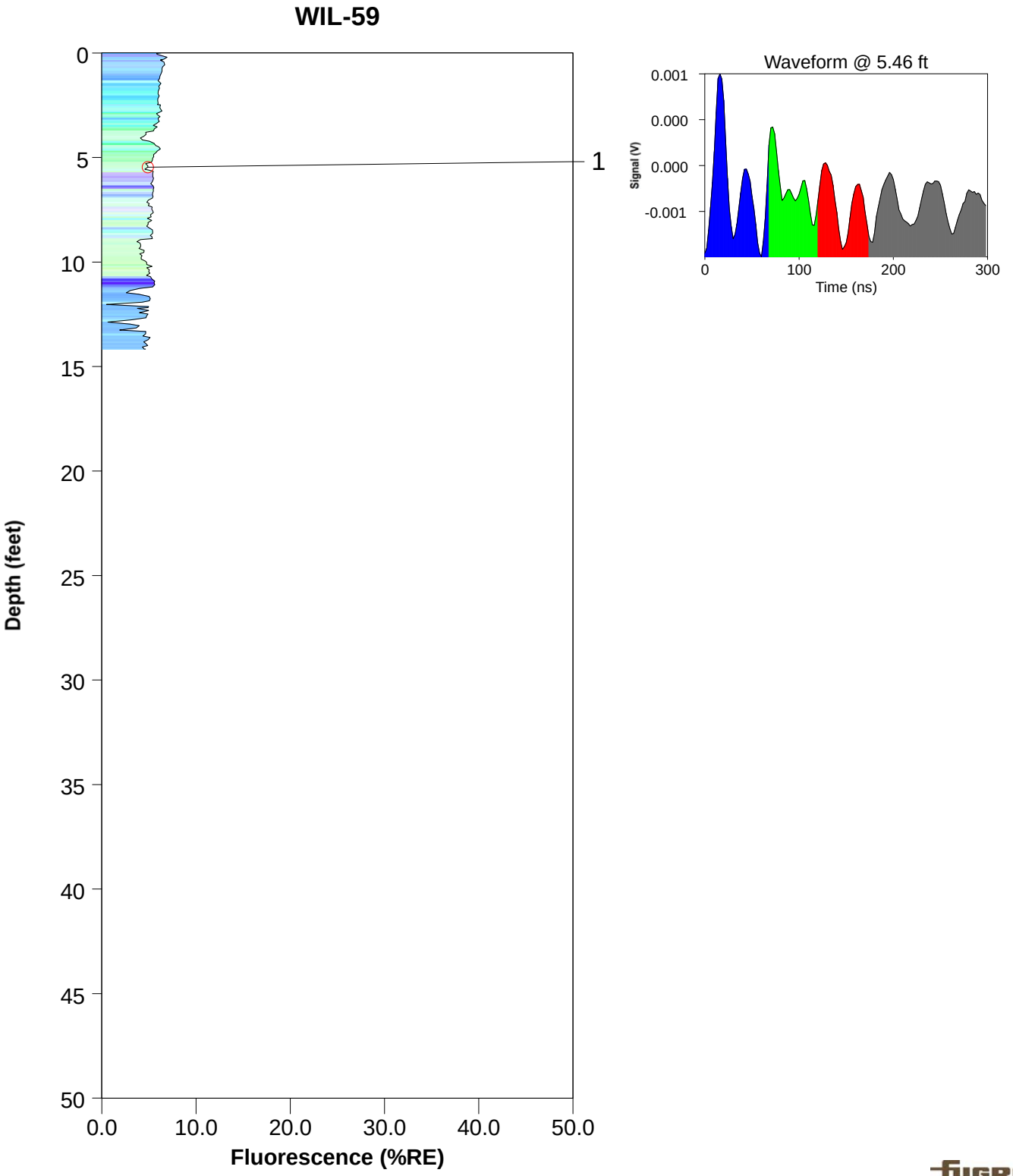
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 3:16:18 PM	Max fluorescence: 53.36% @ 14.36 ft
ROST Unit: 2	Final depth BGS: 38.11 ft



ROST Fluorescence Response Data

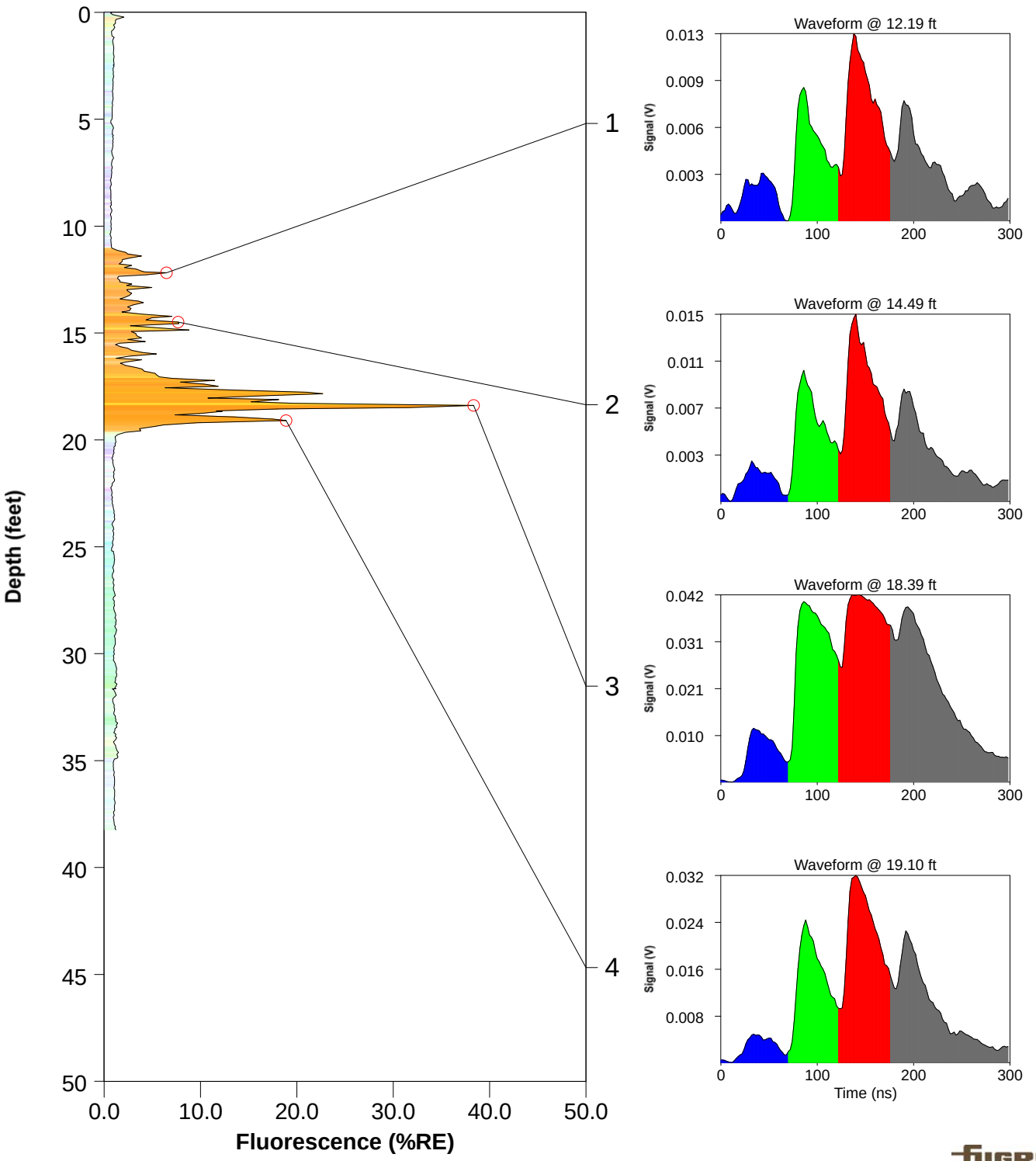
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 2:31:01 PM	Max fluorescence: 6.92% @ 0.21 ft
ROST Unit: 2	Final depth BGS: 14.17 ft



ROST Fluorescence Response Data

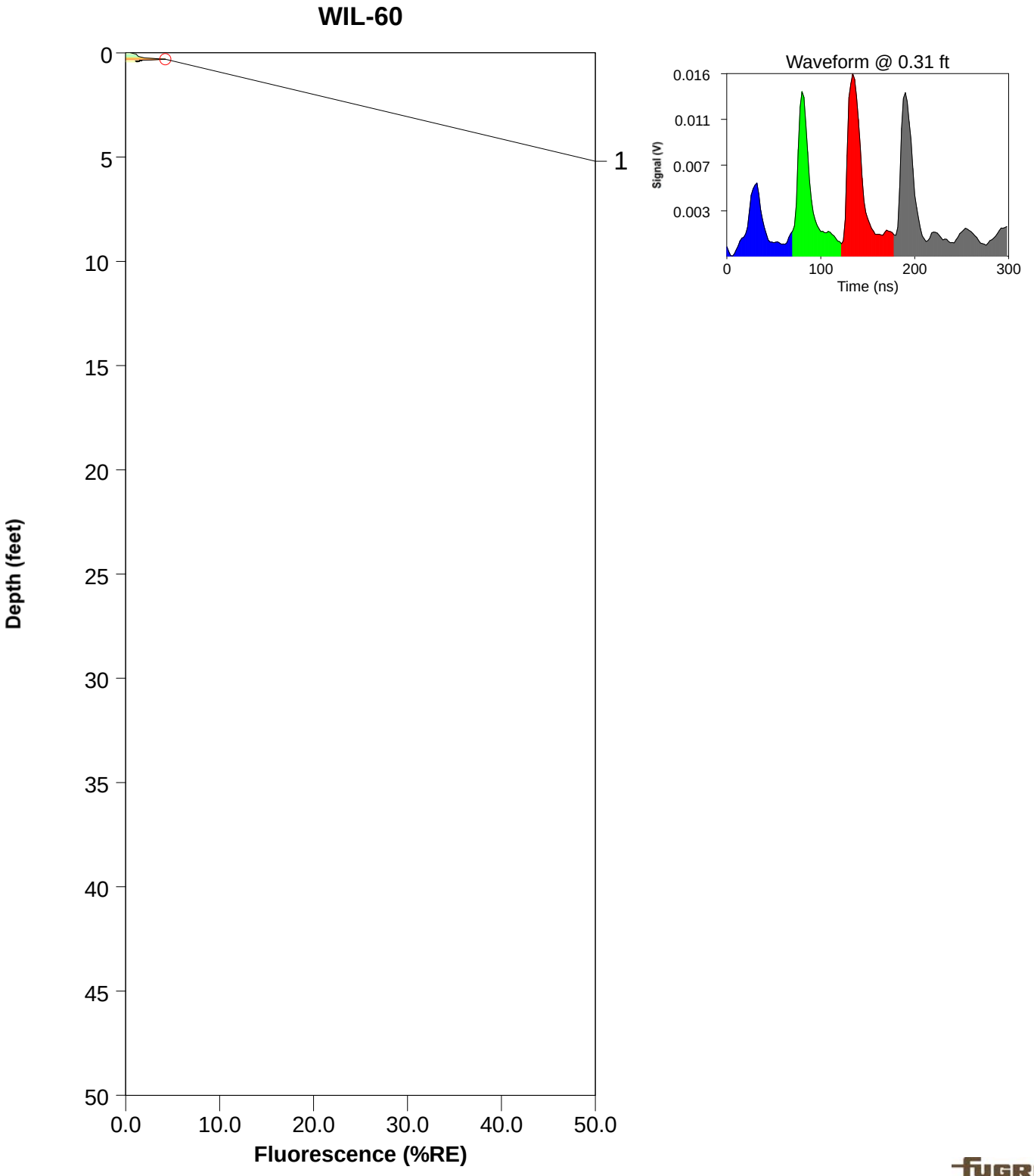
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 2:45:20 PM	Max fluorescence: 38.34% @ 18.39 ft
ROST Unit: 2	Final depth BGS: 38.24 ft

WIL-59A



ROST Fluorescence Response Data

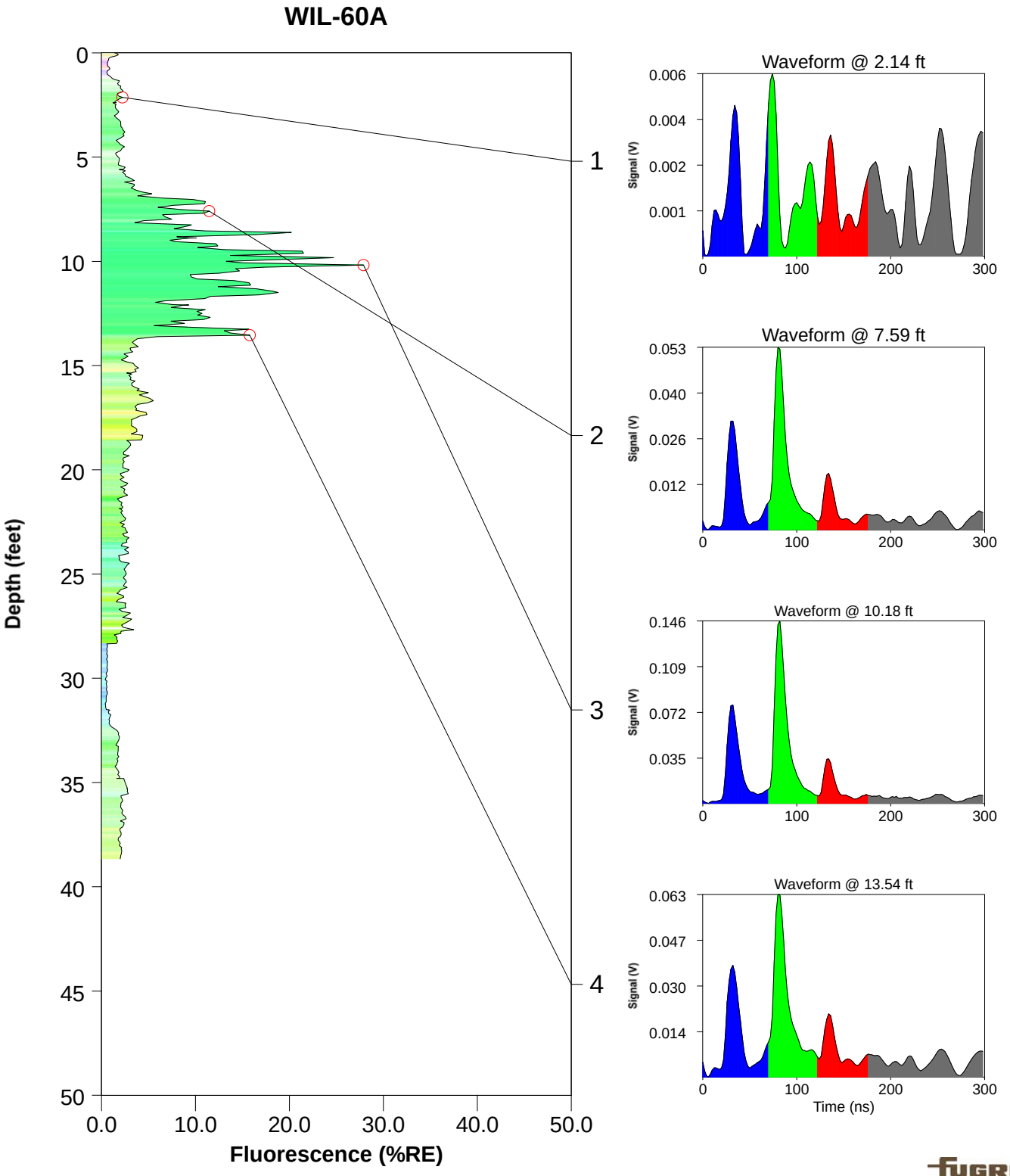
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 1:59:36 PM	Max fluorescence: 4.22% @ 0.31 ft
ROST Unit: 2	Final depth BGS: 0.43 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

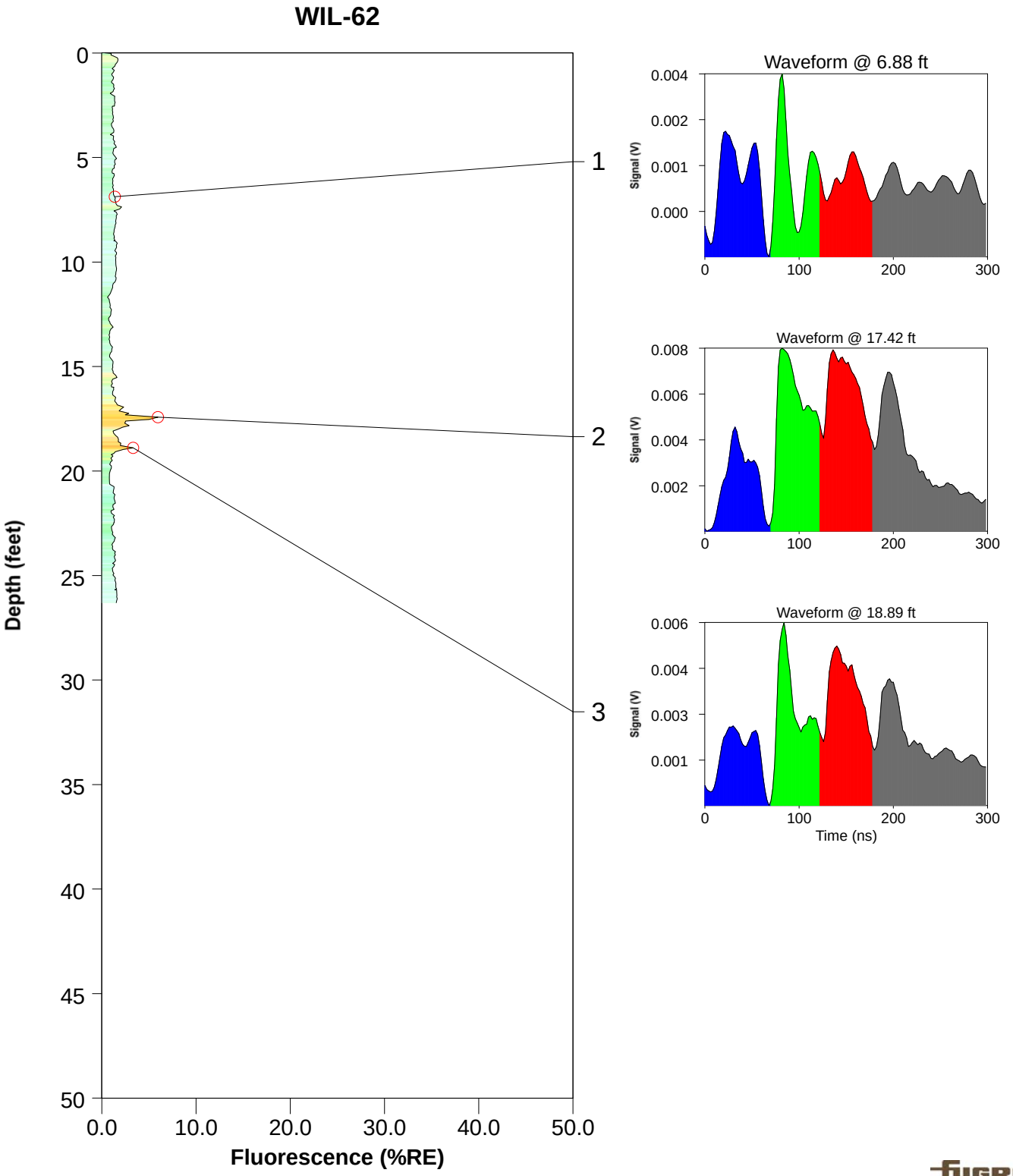
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 2:04:31 PM	Max fluorescence: 27.88% @ 10.18 ft
ROST Unit: 2	Final depth BGS: 38.65 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

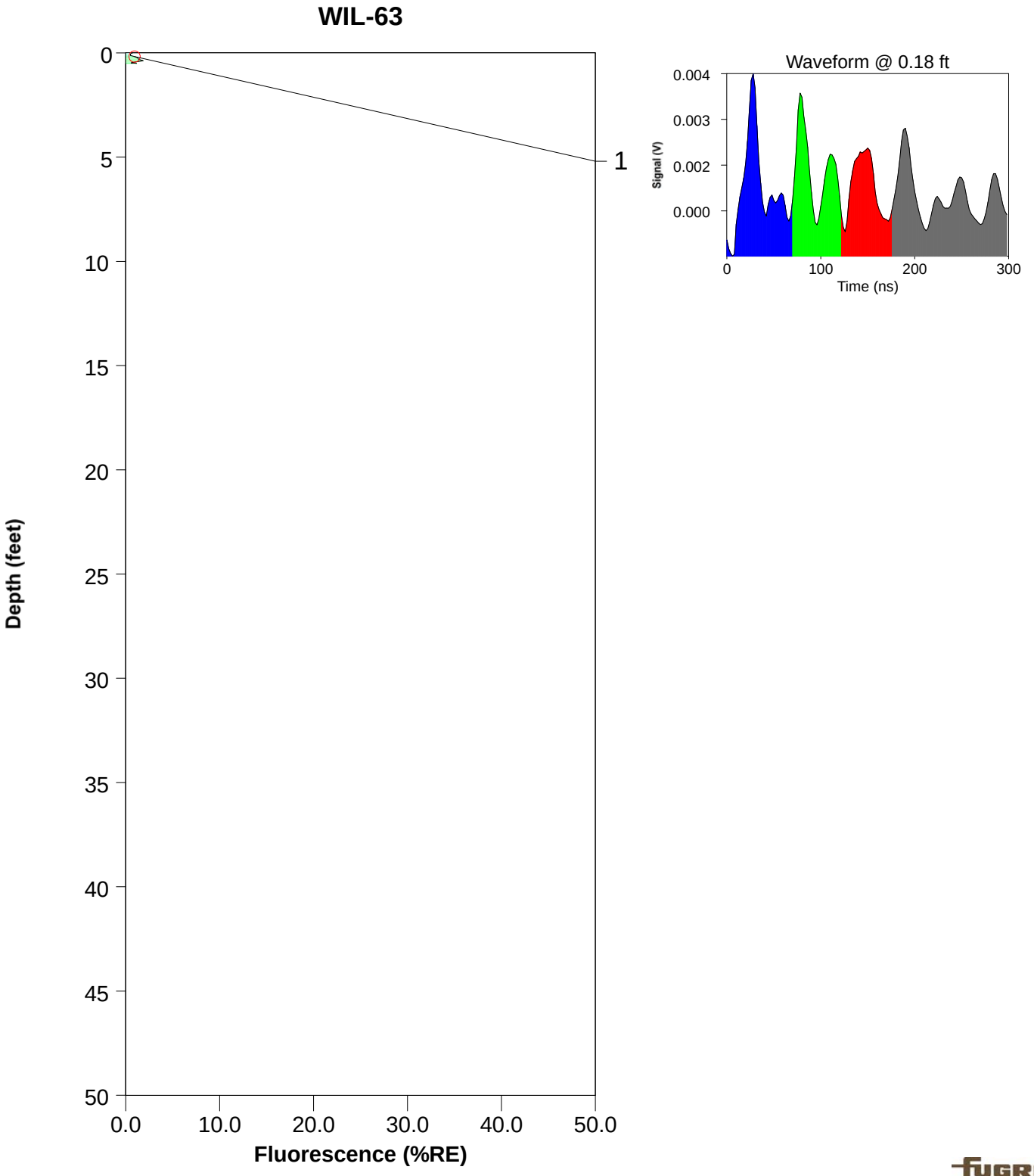
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 1:18:26 PM	Max fluorescence: 5.95% @ 17.42 ft
ROST Unit: 2	Final depth BGS: 26.30 ft



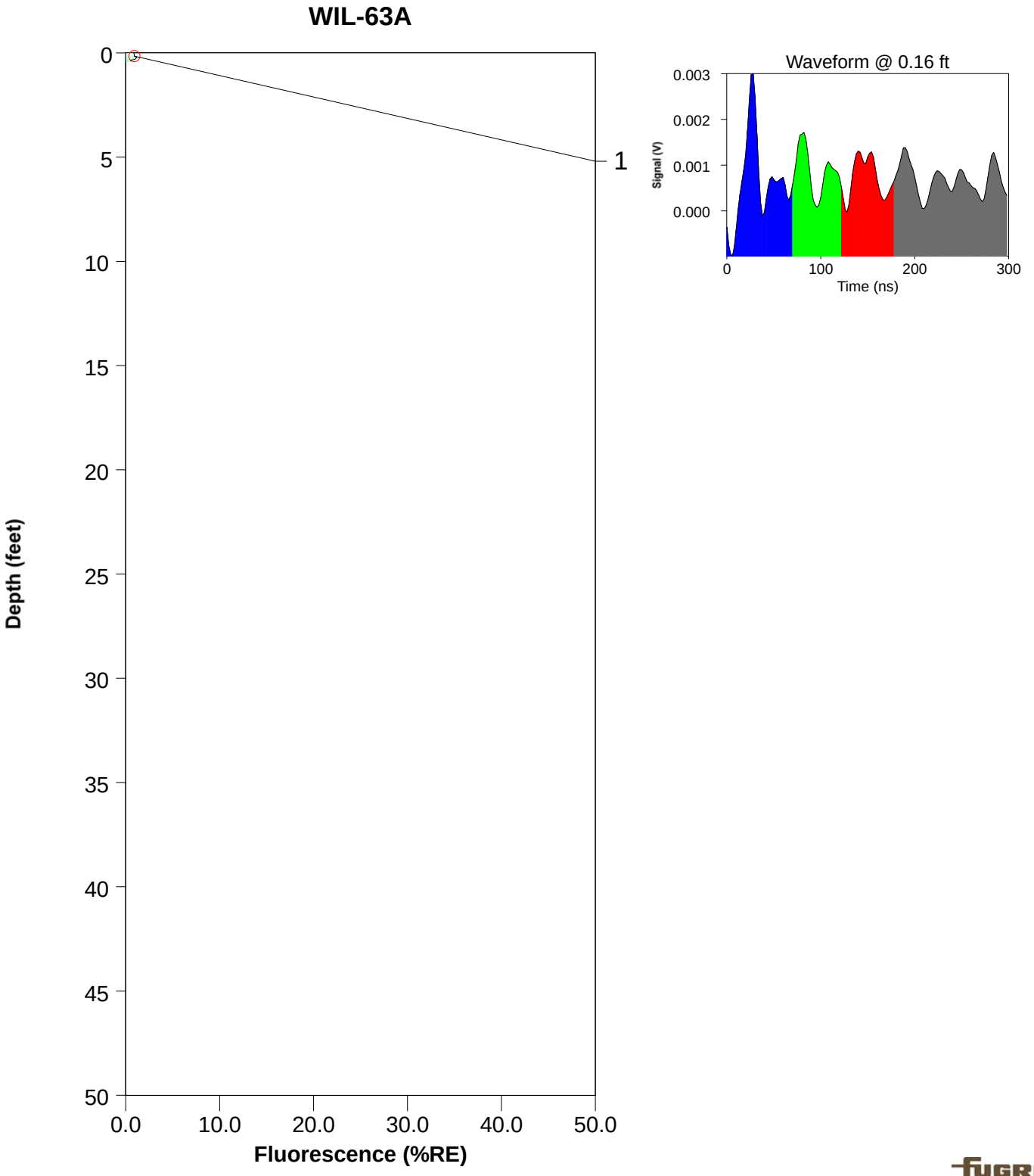
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 1:42:29 PM	Max fluorescence: 1.86% @ 0.38 ft
ROST Unit: 2	Final depth BGS: 0.51 ft



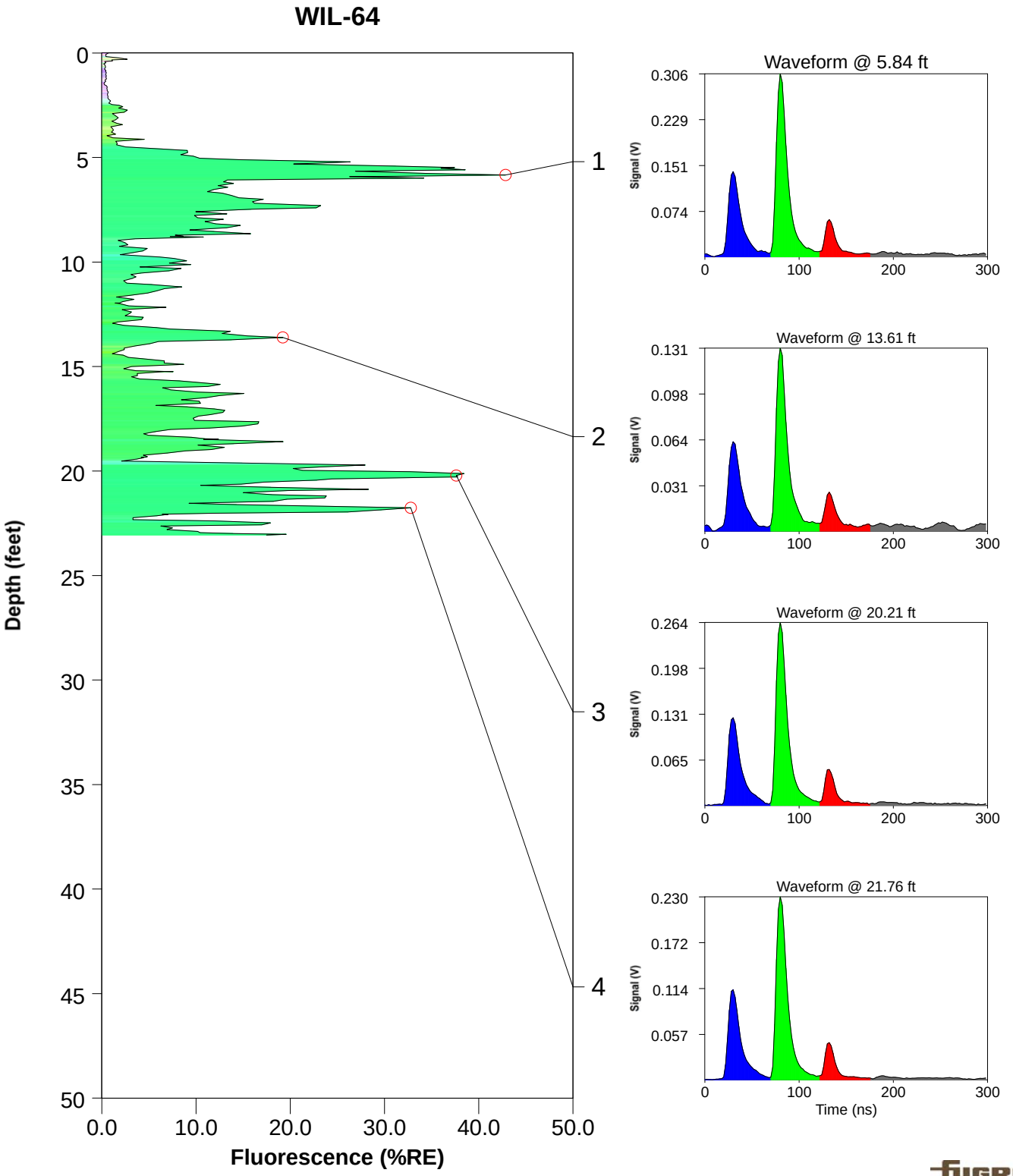
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 1:47:38 PM	Max fluorescence: 1.19% @ 0.22 ft
ROST Unit: 2	Final depth BGS: 0.40 ft



ROST Fluorescence Response Data

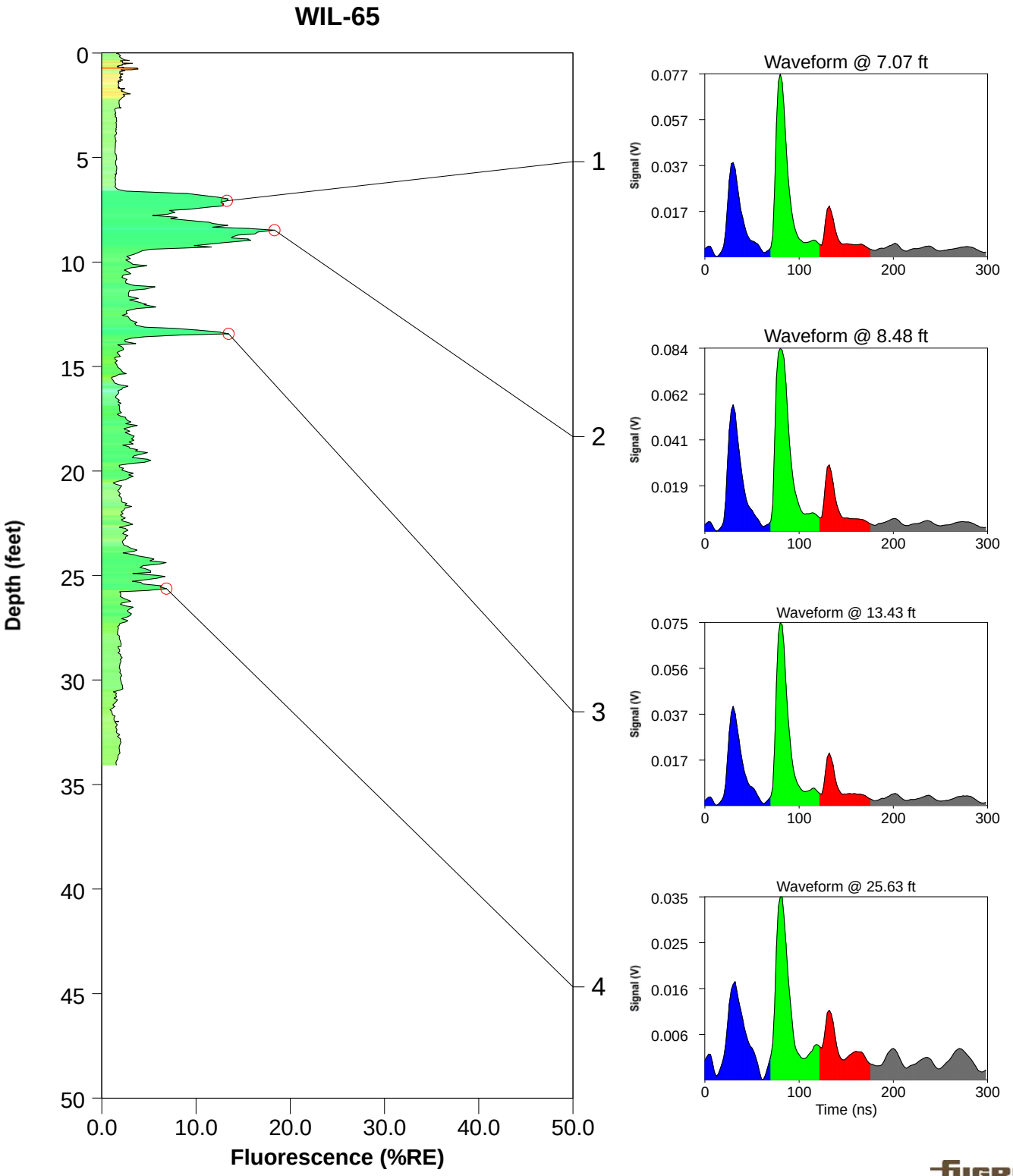
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/12/2015 @ 4:12:35 PM	Max fluorescence: 42.84% @ 5.84 ft
ROST Unit: 2	Final depth BGS: 23.07 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

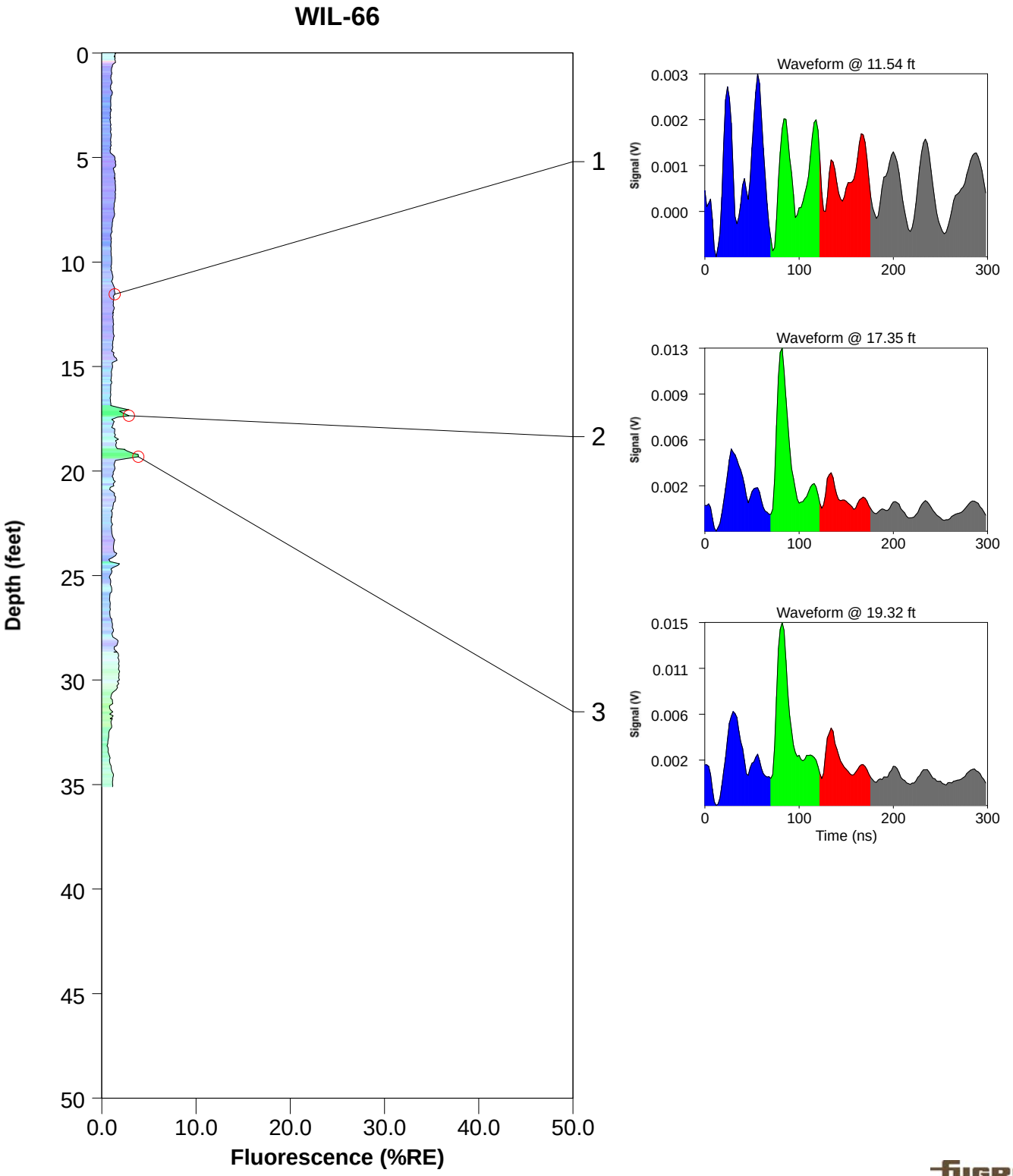
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 8:57:19 AM	Max fluorescence: 18.32% @ 8.48 ft
ROST Unit: 2	Final depth BGS: 34.06 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

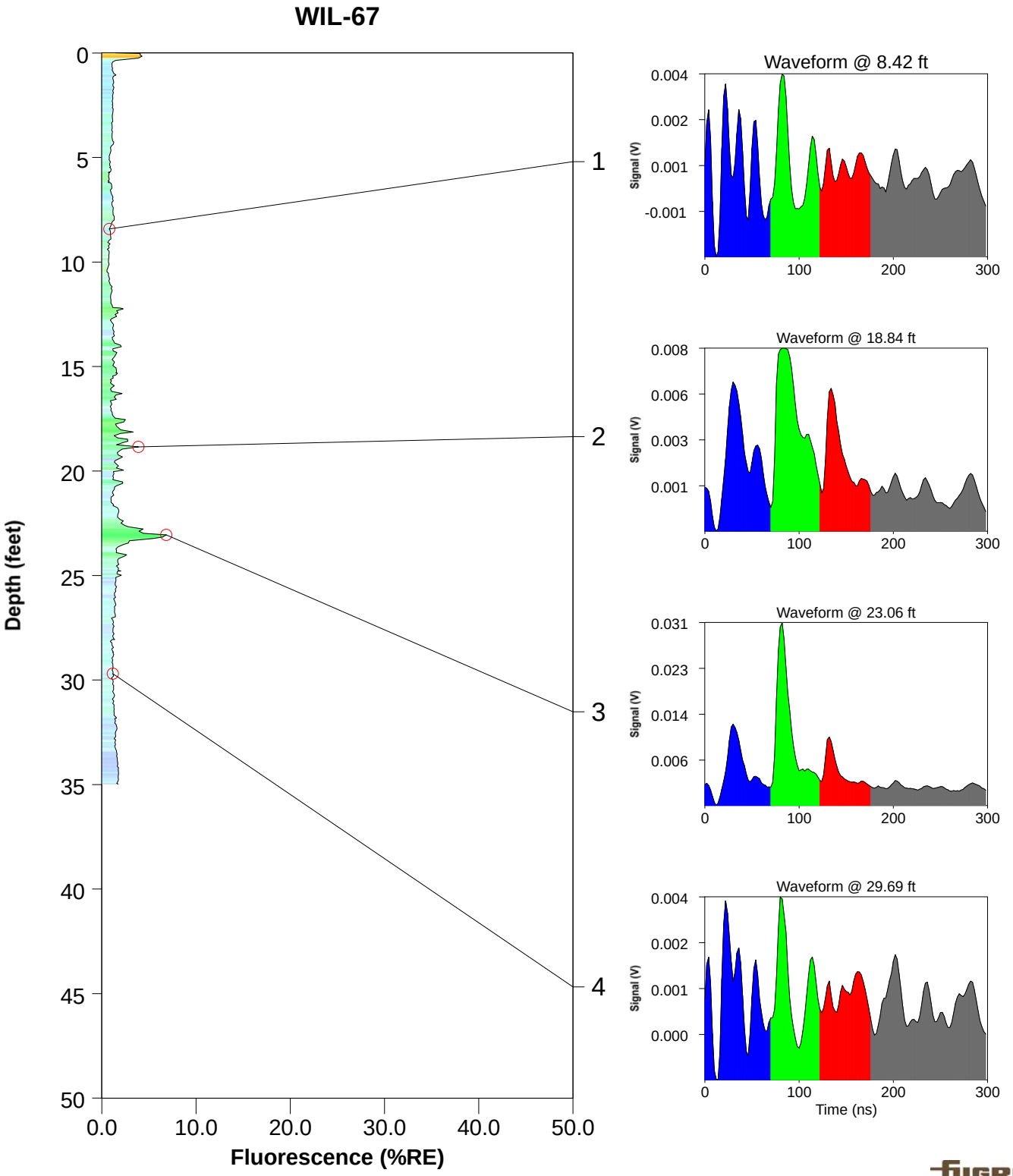
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 9:40:52 AM	Max fluorescence: 3.87% @ 19.32 ft
ROST Unit: 2	Final depth BGS: 35.11 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

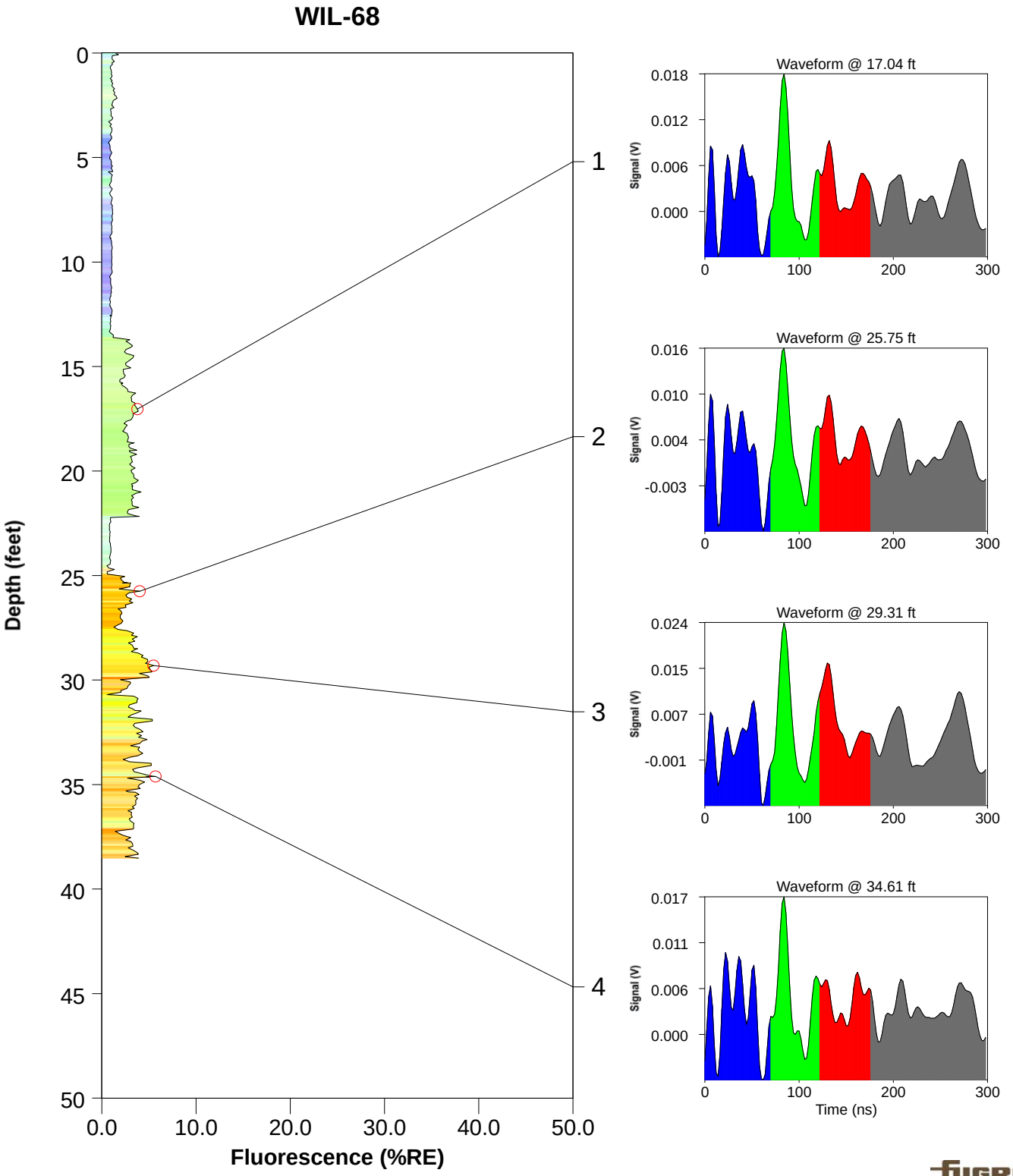
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 10:07:53 AM	Max fluorescence: 6.83% @ 23.06 ft
ROST Unit: 2	Final depth BGS: 34.97 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

ROST Fluorescence Response Data

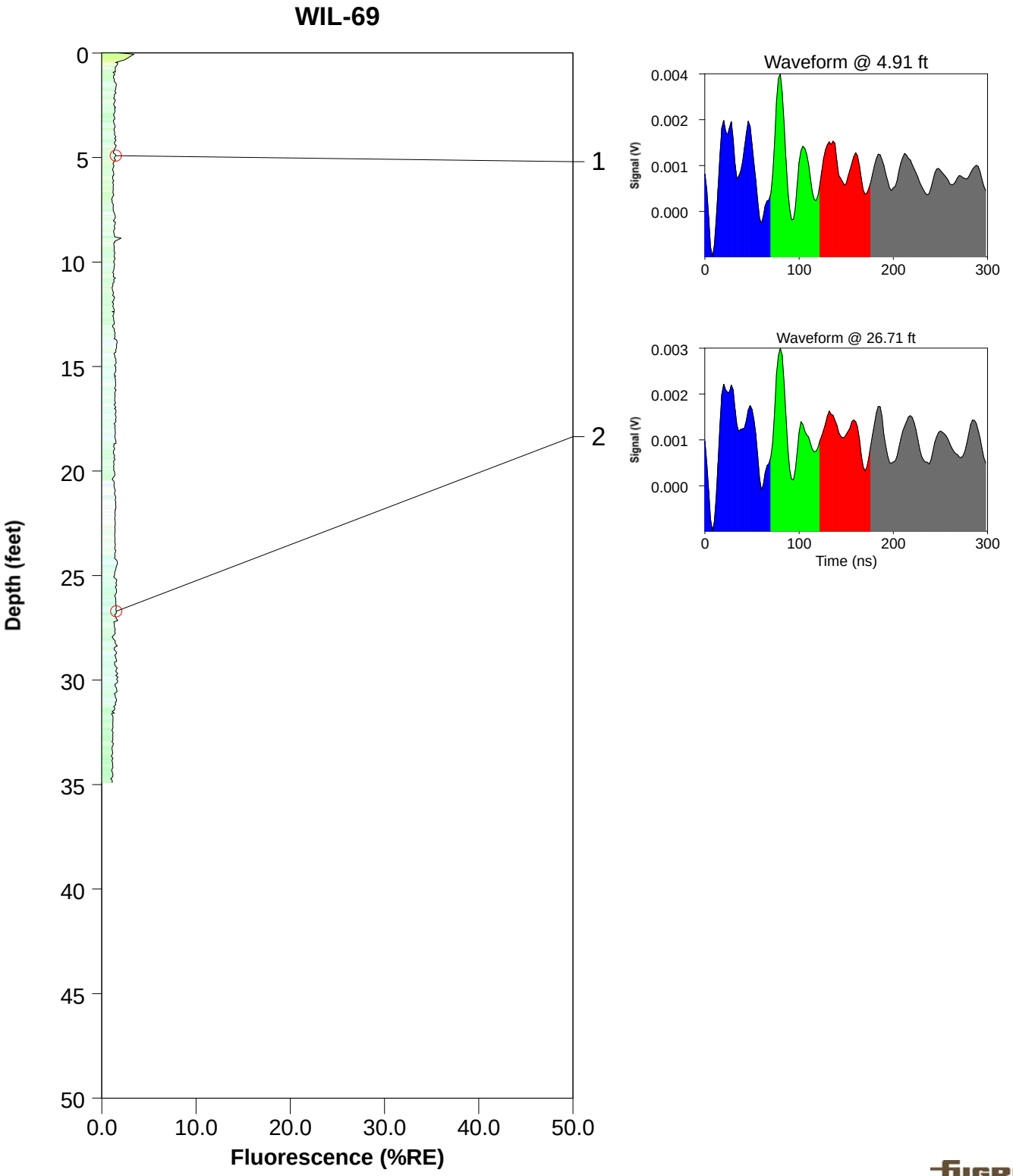
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 10:45:37 AM	Max fluorescence: 5.70% @ 34.61 ft
ROST Unit: 2	Final depth BGS: 38.52 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

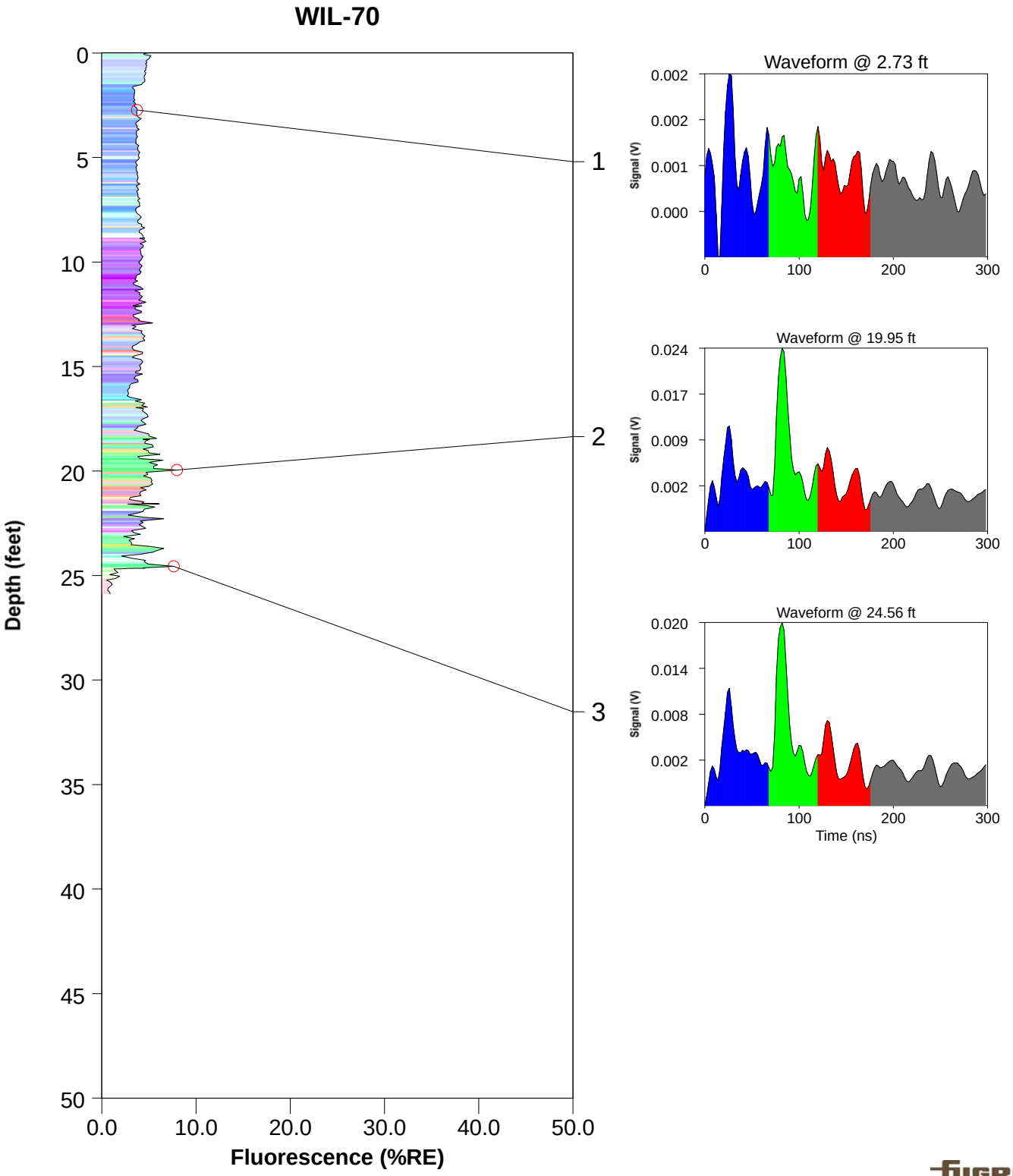
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 1:16:16 PM	Max fluorescence: 3.41% @ 0.06 ft
ROST Unit: 2	Final depth BGS: 34.89 ft



ROST Fluorescence Response Data

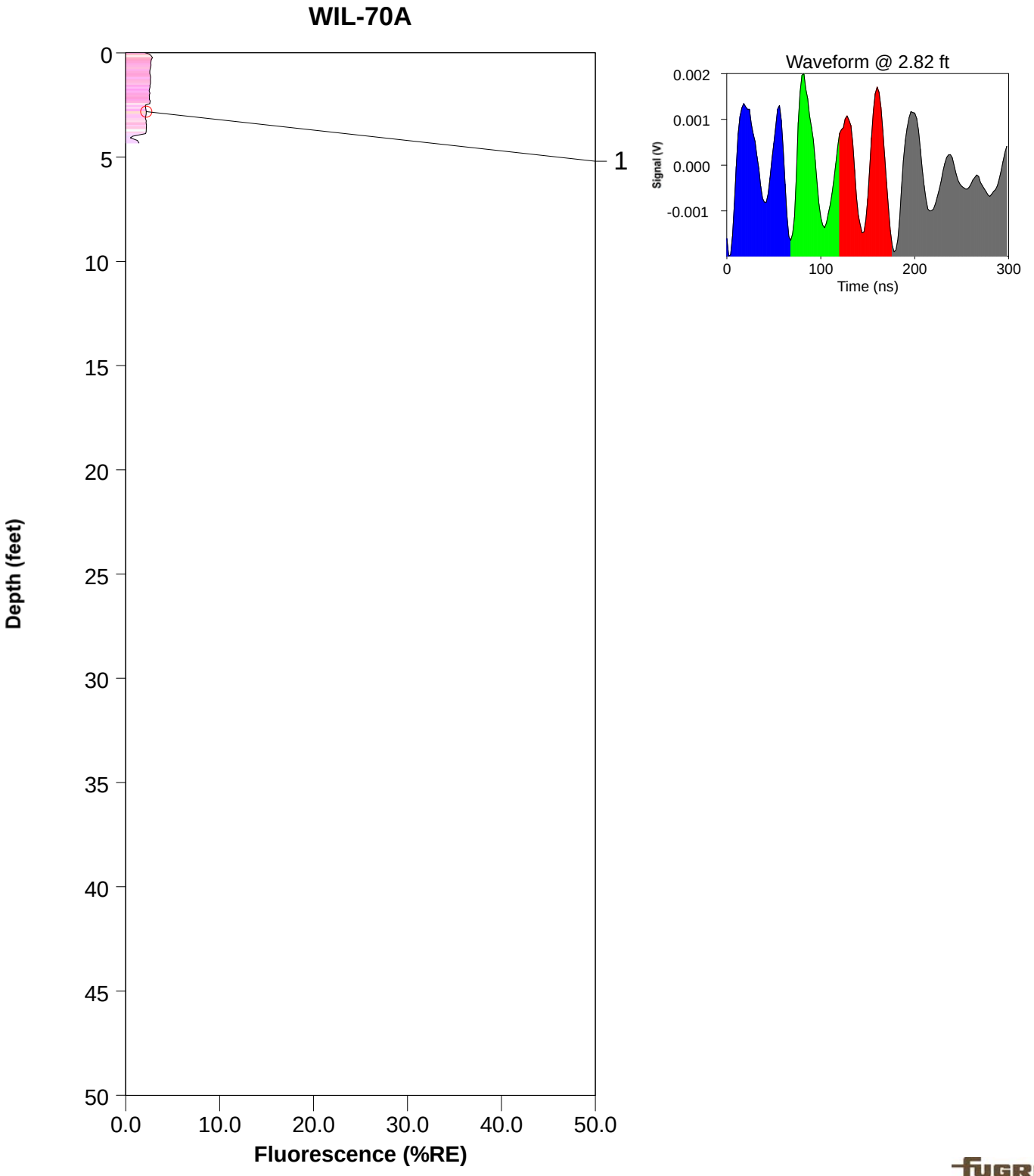
Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 2:27:06 PM	Max fluorescence: 7.96% @ 19.95 ft
ROST Unit: 2	Final depth BGS: 25.88 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

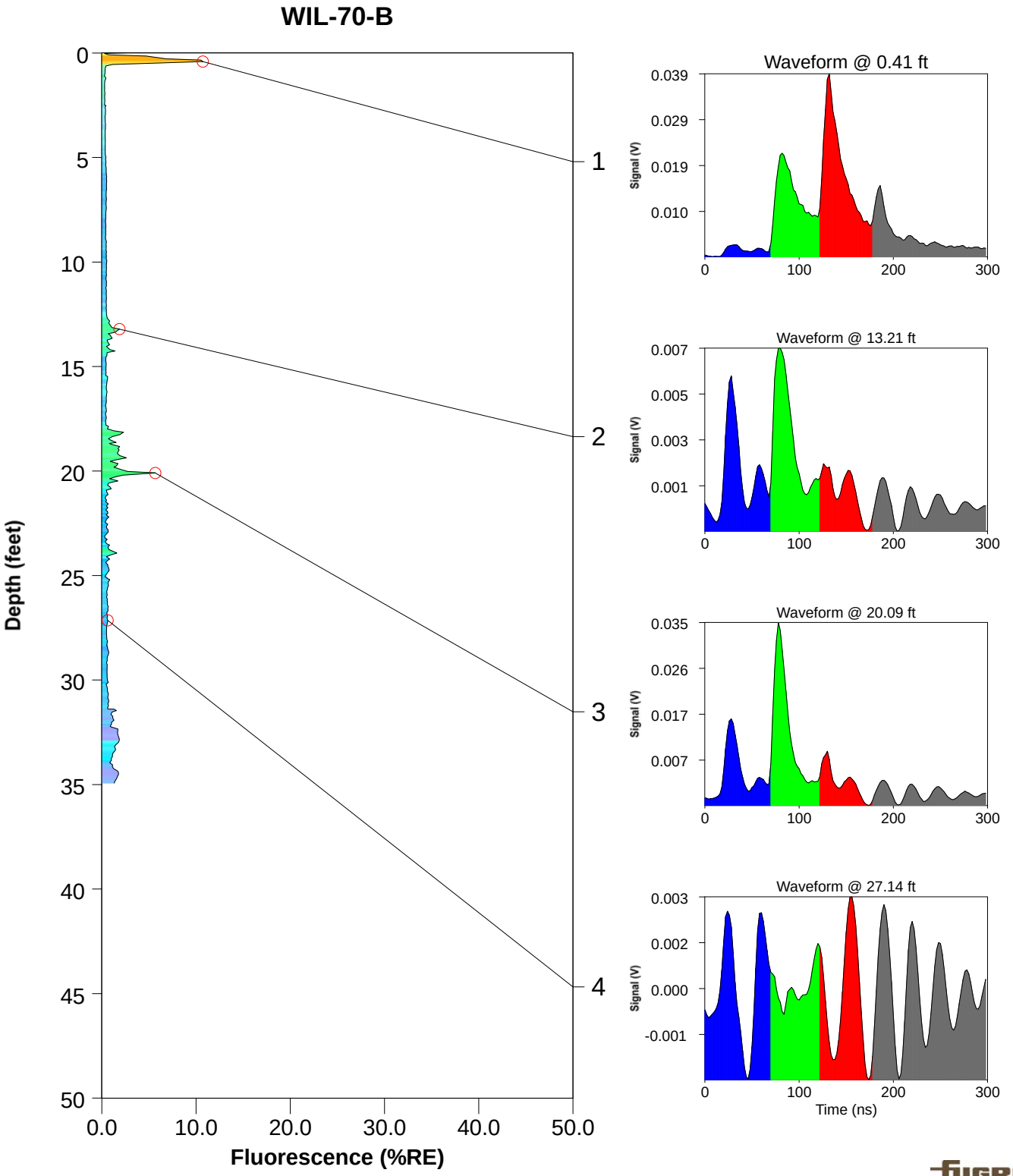
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 3:09:36 PM	Max fluorescence: 2.85% @ 0.23 ft
ROST Unit: 2	Final depth BGS: 4.32 ft



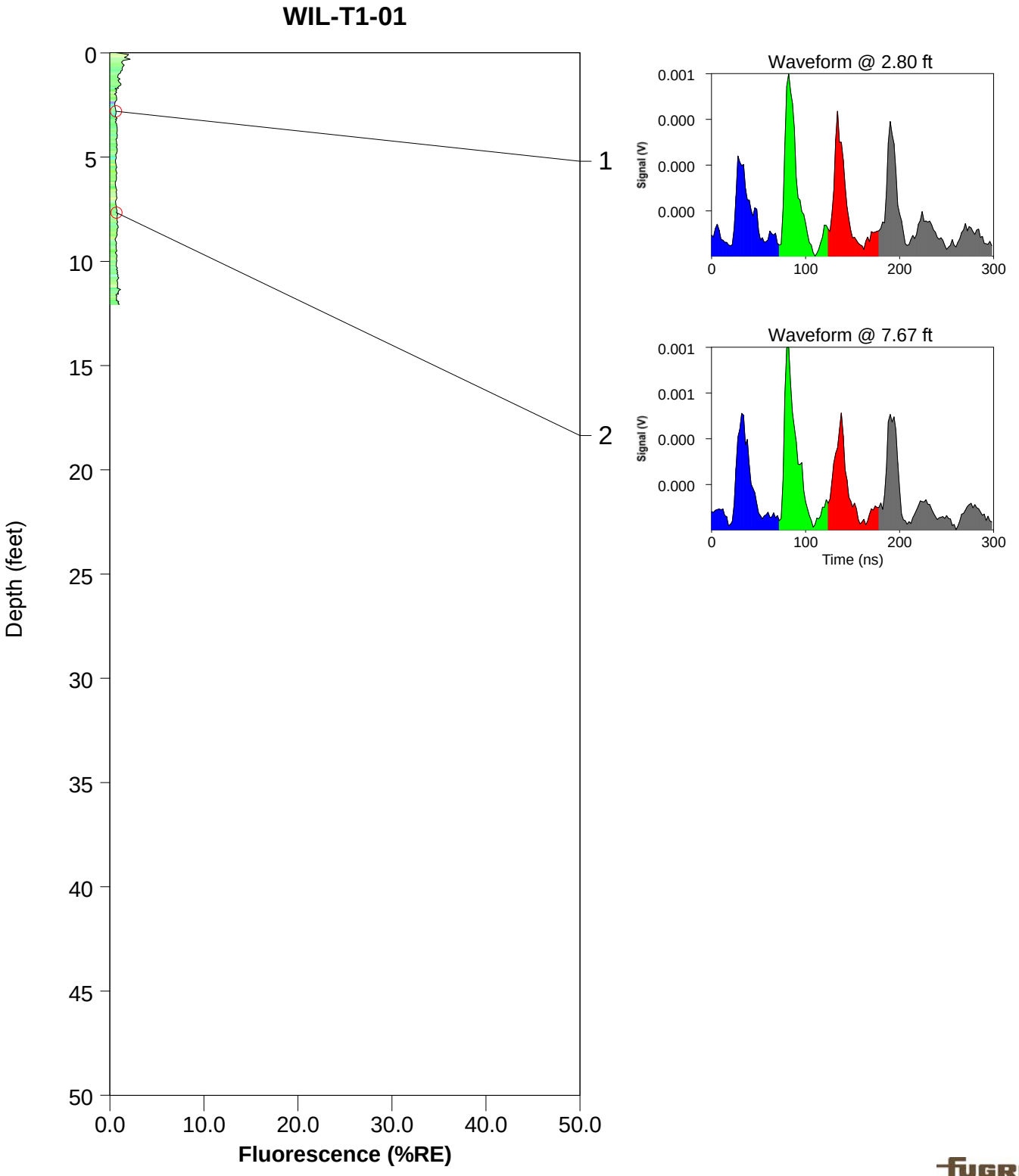
ROST Fluorescence Response Data

Site: Bristow, OK	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 04.19150079
Date/Time: 12/13/2015 @ 4:38:20 PM	Max fluorescence: 10.72% @ 0.41 ft
ROST Unit: 2	Final depth BGS: 34.93 ft



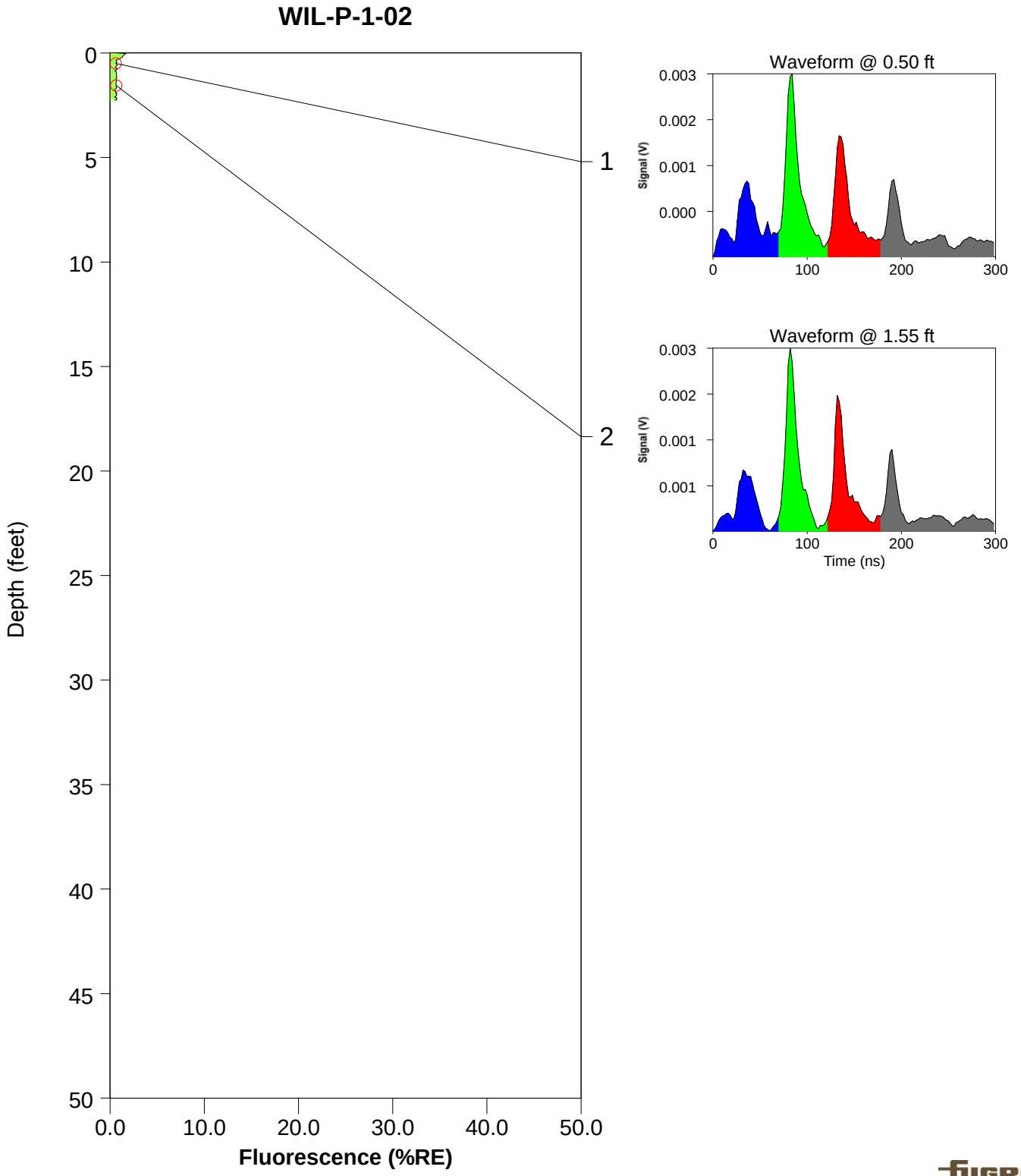
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 8:53:25 AM	Max fluorescence: 2.15% @ 0.31 ft
ROST Unit: ?	Final depth BGS: 12.06 ft



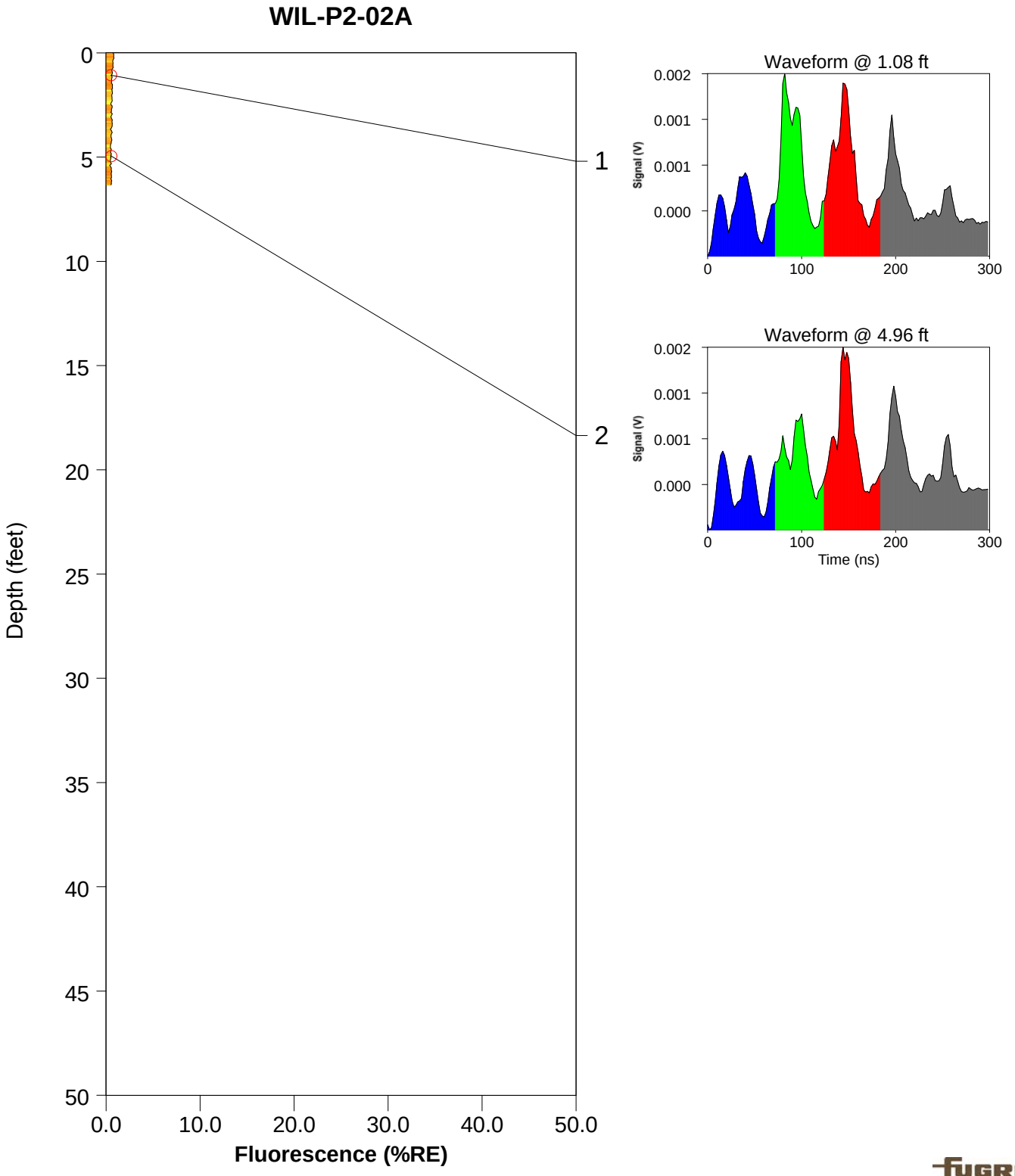
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 12:21:41 PM	Max fluorescence: 1.66% @ 0.03 ft
ROST Unit: ?	Final depth BGS: 2.25 ft



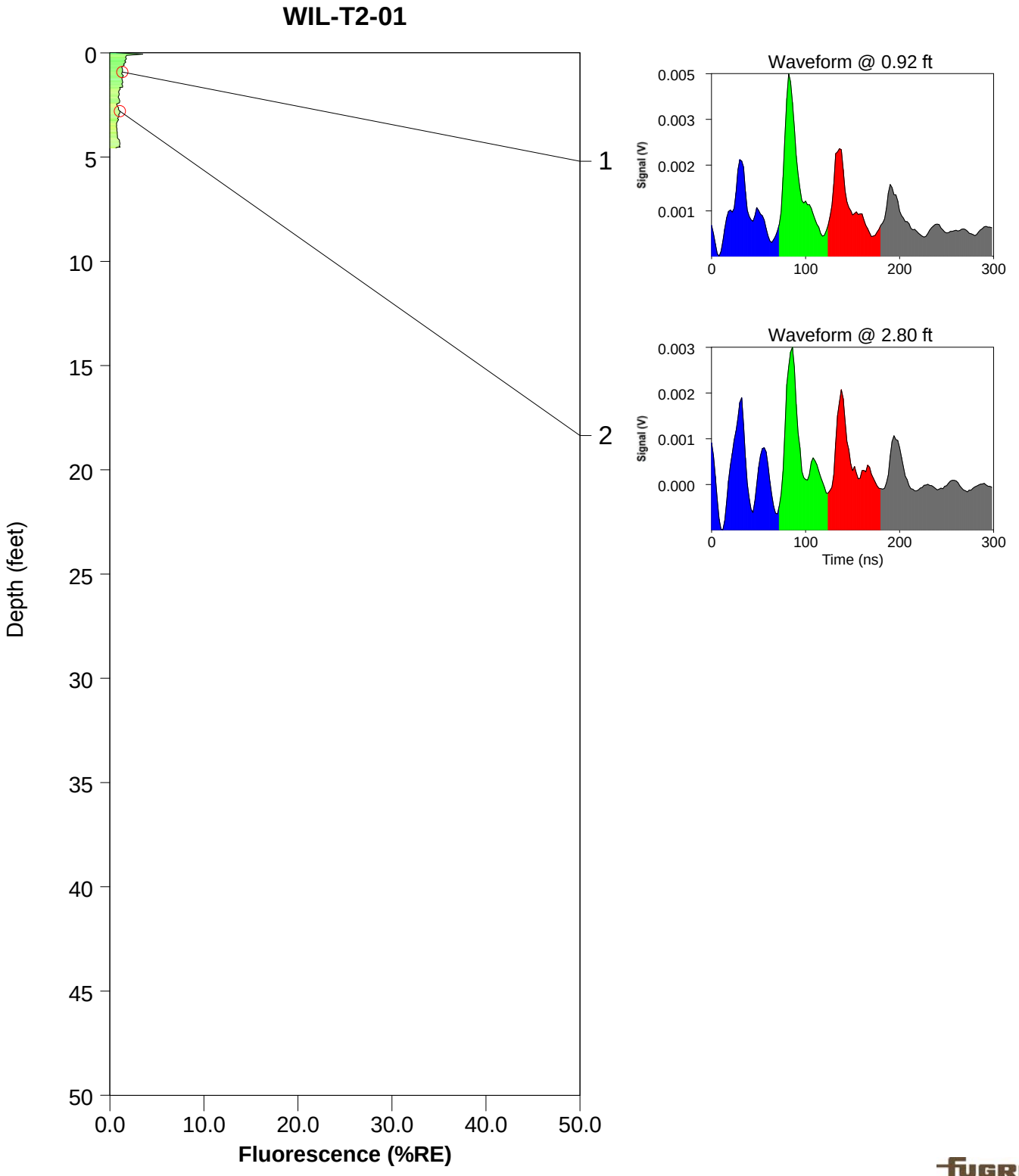
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 11:45:42 AM	Max fluorescence: 0.84% @ 0.26 ft
ROST Unit: ?	Final depth BGS: 6.33 ft



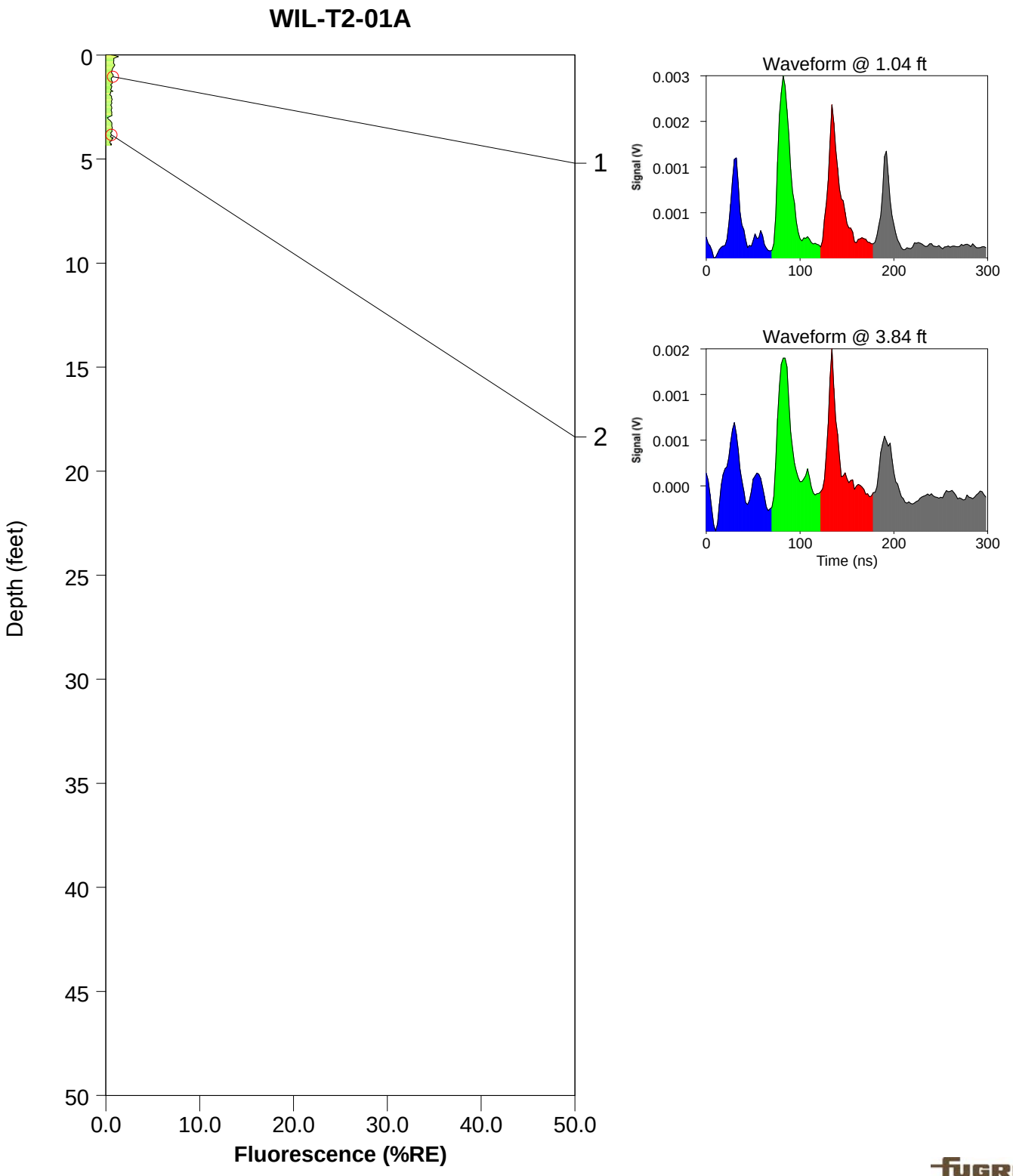
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 10:43:50 AM	Max fluorescence: 3.49% @ 0.06 ft
ROST Unit: ?	Final depth BGS: 4.55 ft



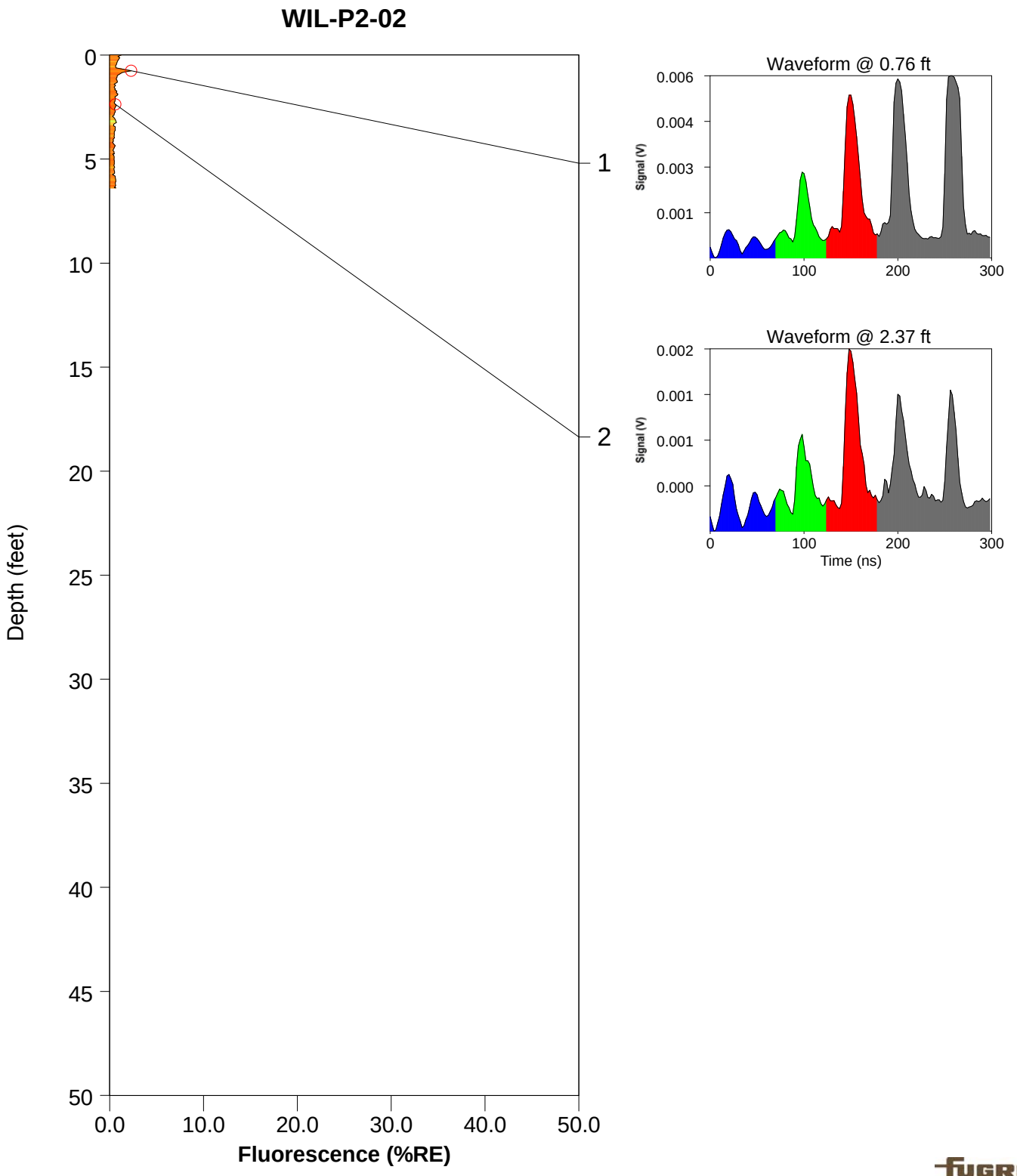
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 10:55:35 AM	Max fluorescence: 1.33% @ 0.08 ft
ROST Unit: ?	Final depth BGS: 4.33 ft



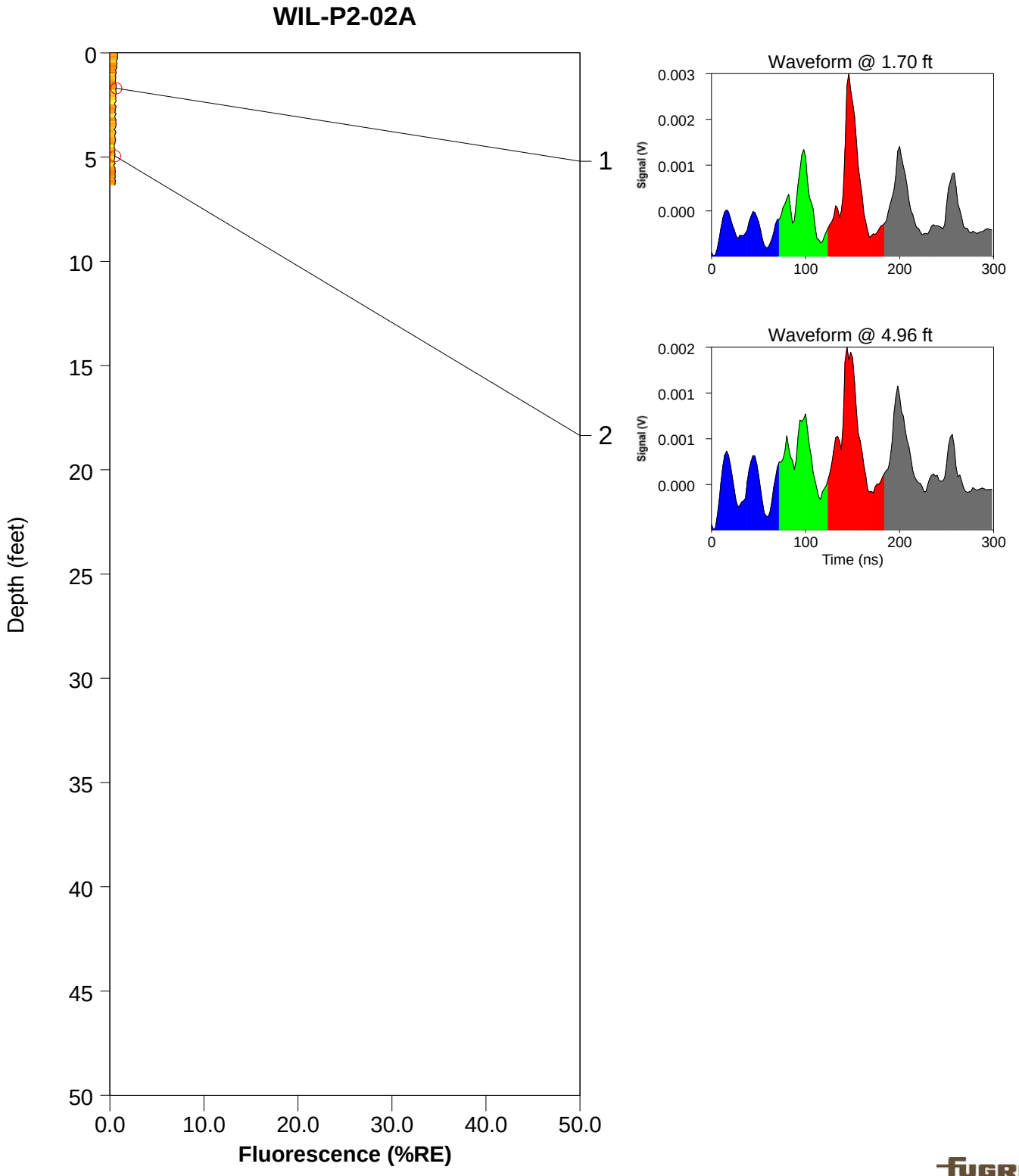
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 11:30:13 AM	Max fluorescence: 2.28% @ 0.76 ft
ROST Unit: ?	Final depth BGS: 6.39 ft



ROST Fluorescence Response Data

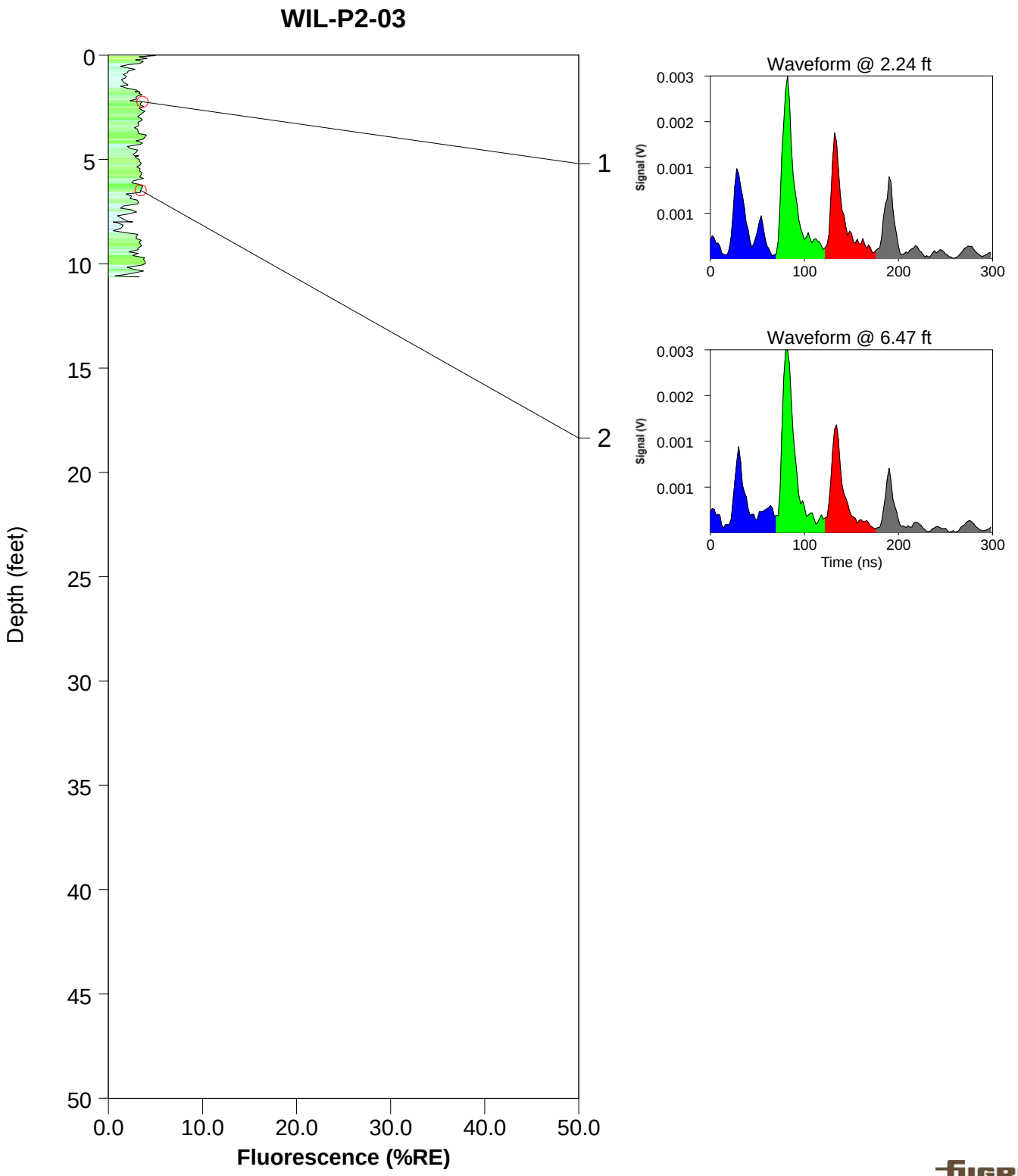
Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 11:45:42 AM	Max fluorescence: 0.84% @ 0.26 ft
ROST Unit: ?	Final depth BGS: 6.33 ft



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

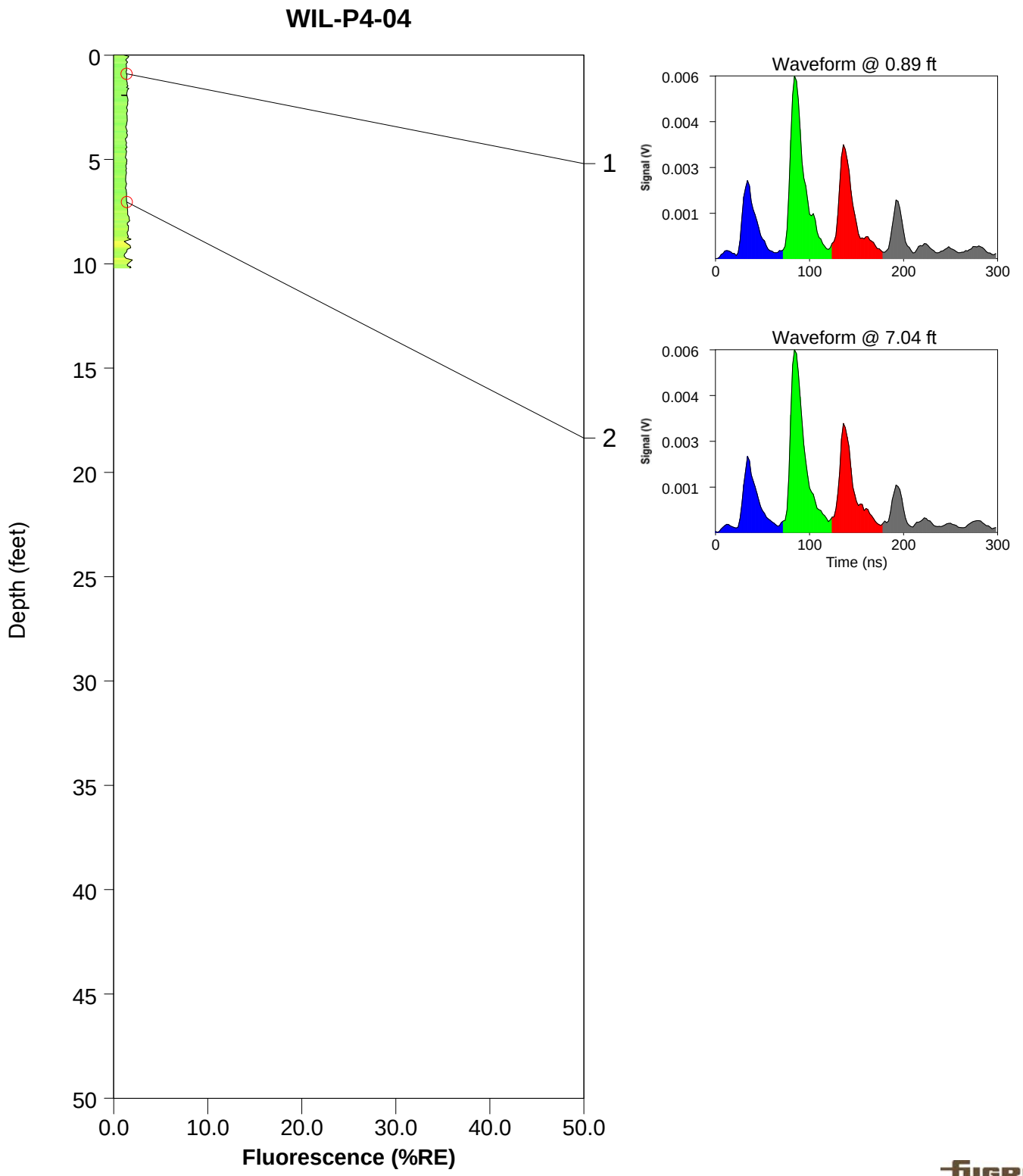
ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 12:53:19 PM	Max fluorescence: 4.99% @ 0.02 ft
ROST Unit: ?	Final depth BGS: 10.63 ft



ROST Fluorescence Response Data

Site: Bristow Ok.	Operator: Glenn Johnson
Client: Lockheed Martin	Fugro Job #: 1915-0079
Date/Time: 12/6/2015 @ 1:28:38 PM	Max fluorescence: 1.99% @ 9.82 ft
ROST Unit: ?	Final depth BGS: 10.20 ft



APPENDIX I

Understanding ROST Guide

Provided for Reference Only by Fugro Consultants, Inc.

Submitted to LM SERAS via E-mail on October 27, 2015

Wilcox Oil Company Superfund Site

Definitions

ROST – Rapid Optical Screening Tool

LIF - Laser-induced fluorescence

POL - petroleum, oils and lubricants

PAH - polycylic aromatic hydrocarbon

PPM - parts per million

LIF - Laser Induced Fluorescence

M1 - fluorescence reference emitter

UV - Ultraviolet (excimer wavelength - 308nm)

BGS - below ground surface

TPH - Total petroleum hydrocarbon

FVD - fluorescence vs depth data file containing full waveform data

AVD - area vs. depth file data containing abbreviated information

PST - push standard file for compatibility with previous DOS software

INFO - information file containing important notes about ROST log

JPG - Joint Photographic Experts Group image file of FVD log

Data File Information

Log Files
The *.log files are stored in Activity Logs directory that is created and maintained automatically. They contain a log of all the activity that took place each day with ROST system.

FVD Files
Fluorescence vs. Depth files (*.FVD) contain the full data matrix as follows:

Row 1, Column 1 is a zero that serves as a placeholder
Row 1, Column 2 to last Column is time vector in nanoseconds
Row 2, Column 1 is a negative 9 serving to indicate M1 reference emitter waveform
Row 2, Column 2 to last Column is the voltages of the M1 reference emitter waveform
Row 3 to last Row, Column 1 is the depth of each ROST measurement
Row 3 to end row, Column 2 to last Column are all the voltages of the ROST waveforms acquired at each depth

AVD Files
Area vs. Depth files (*.AVD) are an abbreviated file that is most often given to client along with INFO file. Client is typically interested in Columns 1 and 2 only.
Format as follows:

Column 1 is the depth in meters or feet (look at INFO file to determine depth system)
Column 2 is total fluorescence represented as a % of M1 (to normalize data)
Column 3 is relative signal strength (area) of Channel #1 (340nm)
Column 4 is relative signal strength (area) of Channel #2 (390nm)
Column 5 is relative signal strength (area) of Channel #3 (440nm)
Column 6 is relative signal strength (area) of Channel #4 (490nm)
Column 7 is 32 bit color code number based on color scheme chosen for this test

INFO Files
The INFO files (*.INFO) are self explanatory. They contain all the information that should be stored from each test to enable printing, viewing, and analysis to take place at a later date even without having access to technician's notes. ROST software uses this to update information panel when loading previously acquired ROST logs.

PST File
The PST file (*.pst) is a legacy file. This is the M1 waveform stored as:
Column 1 – Depth
Column 2 – Voltage

This file is used to allow older Matlab software to view/print/analyze FVD logs.

Polycyclic Aromatic Hydrocarbon (PAH) Fluorescence Principles

Laser-induced fluorescence (LIF)

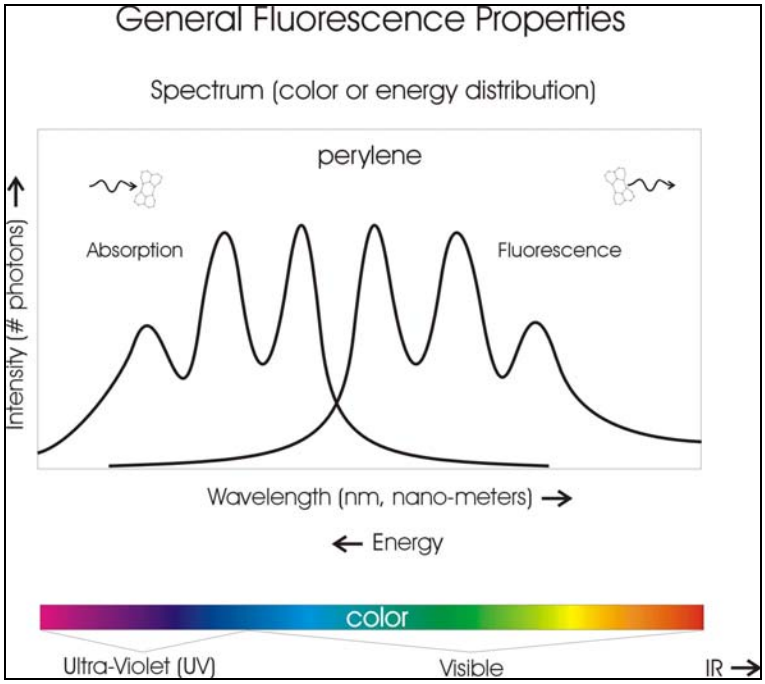
Fluorescence spectroscopy is one of the most widely applied spectroscopic techniques in use today. It is, by nature, a fast, sensitive and typically reversible process that makes it ideal for incorporation into a continuous screening technique that uses an optically transparent window as the conduit between the sensor and the analyte. Luminescence is the emission of light from any substance that returns to the ground state after being excited into an electronically excited state. If the bulk of the molecules emit their photons in less than a microsecond the emission is referred to as fluorescence. Emission that takes longer than this is called phosphorescence.

Fluorescence is typically observed in molecules that have an aromatic structure. One class of aromatics is the PAH found in quantity in typical petroleum products. The PAHs found in coal tars, creosotes and even sediments are also fluorescent, but they fluoresce much less efficiently than PAHs dissolved in more solvent-rich environments, such as the aliphatic body that makes up the bulk of fuels/petroleums. We have observed that the less solvent available, the less efficiently the PAHs fluoresce. The PAHs continue to absorb the excitation light, but there is a much higher likelihood of the PAHs finding a non-radiative mechanism with which to shed the additional energy they picked up during the absorption of the excitation photon(s). In spite of this, the PAHs in sediments can still be coaxed into fluorescing well enough to allow in-situ laser-induced fluorescence screening via a sapphire-windowed probe.

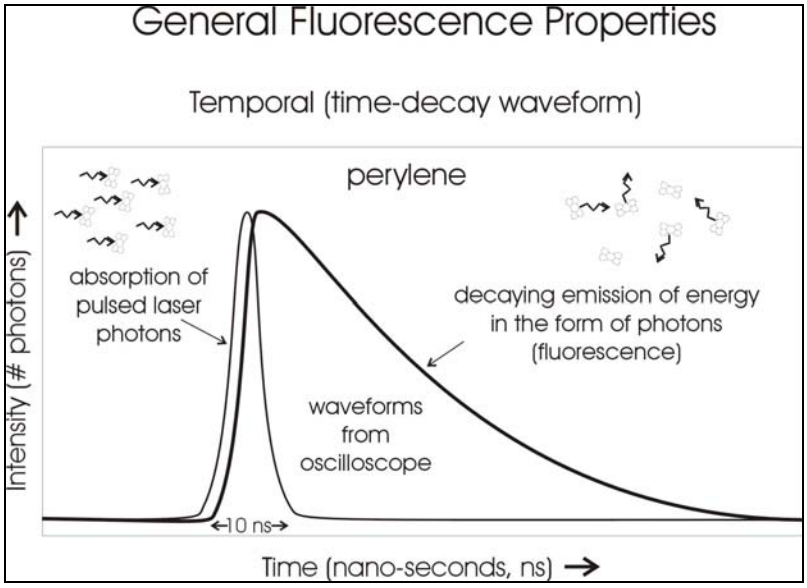
A plot of the relative distribution of the different colors (or energies) of the photons being emitted by an excited sample of PAH is called the spectrum (or spectra when referring to more than one). Figure 1 illustrates the concept of PAH absorbance and fluorescence spectra. The spectra of individual PAH species (such as naphthalene and anthracene) can contain enough structure (peaks and valleys) to be identified in simple mixtures in the lab. The fluorescence of PAHs in sediments however, is originating from such a wide variety and concentrations of PAHs and differing local environments (dissolved phase, sorbed to particles, microcrystals, etc.) that the resulting spectra are very broad and contain very little "structure" that one might use to determine which individual PAHs are responsible for the fluorescence. The spectra do shift enough to recognize that the distribution of species or environments are changing, but individual speciation is impossible.

Another property of fluorescence that can be measured is the varying amount of time it takes for the molecules to emit the photons after exposure to a pulsed excitation source, such as a laser is illustrated in Figure 2. If we use a time sensitive detector to observe the number of photons being emitted over time, we can derive more information about the nature of the fluorophores and their environment. This decay time information contained within the waveform is measured with an oscilloscope. The different PAHs and the differing environments that exist in sediments all combine to change the decay times observed. This information is readily obtained when using a pulsed source such as the laser we used in this application. ROST allows us to investigate not only what colors are being emitted, but also how long it takes for the excited population of PAHs to emit the fluorescence photons. We use a patented method of combining the photons from four regions of the emission spectrum optically collected over 20 nm wide sections of the emission spectra at 340, 390, 440, and 490 nm.

015563



Spectral property of fluorescence



Temporal property of fluorescence

These four "channels" are delayed in time through successively longer fiber optic delay lines and eventually arrive at the detector (photomultiplier tube or PMT). The resulting oscilloscope waveform is a unique measurement of both the spectral and temporal components of the fluorescence. This allows us to simultaneously observe the spectral and temporal qualities of the fluorescence. This technique is described in detail later in this report. It is these multi-wavelength waveforms, measured continuously and stored vs. depth, that ultimately serve as our indicator of PAH concentration vs. depth in the sediment.

Interferences

Nature has co-deposited a myriad of additional fluorescent materials in sediments that will also absorb the laser light and fluoresce intensely enough to complicate the measurement of the PAH fluorescence. Example materials include minerals such as calcites and a variety of biological materials. Both living organisms and their associated breakdown products (humic and fulvic acids) fluoresce well enough to interfere with the observation of the fluorescence of the target PAHs. This fluorescence, along with scattered excitation laser light and Raman light generated throughout the optical train (fiber optics) will ultimately make it back to the detector, mixed in with true PAH fluorescence, and must be accounted for in some fashion. Throughout this document we will refer to all these sources of non-PAH emitted photons as "background" fluorescence, even though the true source might well be non-fluorescent (scatter) in nature.

015565

Understanding ROST Fluorescence Waveforms

Spectroscopic techniques involve probing the target matrix with light and learning about the contents of that matrix by analyzing the light that is emitted or absorbed by the target matrix. For screening tools it is crucial to glean as much information from this light as one can in as little time as possible. ROST accomplishes this task in a novel fashion. The fluorescence data from ROST is deceptively simple. There is a lot more going on in a ROST waveform than one would imagine at first glance. It is actually a two-dimensional data set that contains three-dimensional fluorescence information. To complicate this, some of the information is overlapping. A full description of the multi-wavelength waveform data follows in order to give the reader an understanding of the data acquired during this study.

PAH time decay waveforms

Each type of PAH molecule (such as phenanthrene, naphthalene, or anthracene) emits fluorescence over a unique time period after being excited by a pulsed excitation source such as the laser used in ROST. The emission starts out at maximum intensity, and then decays away at a rate unique to each type of PAH. The number of rings, the bonding between them, the amount of substitution on the rings, and other structural features of the molecule determine, to a great extent, the decay rate exhibited by a particular PAH. One class of molecule, the PCBs, have a structure that would seem to fluoresce well, but the chlorine substitution on the rings causes what is referred to as the heavy-atom effect, resulting in non-radiative relaxation from the excited state and a dramatic reduction in fluorescence. In fact the reduction is so significant that PCBs are essentially non-fluorescent molecules.

The environment in which the PAH exists also has a substantial influence on the decay rate. Quenching, which refers to any process that causes a decrease in the decay time (as well as the intensity) of the fluorescence, is dependent on conditions like oxygen levels, solvent availability, solvent viscosity, and a myriad of other matrix dependent conditions. An example of this can be found with the fluorescence of PAHs in fuels (gasoline, diesel, or kerosene) vs. coal tar oil. The coal tar oil can often contain more PAHs than the fuels, but the fluorescence lifetime is much shorter and the total fluorescence of fuels is often 2 to 3 orders of magnitude more intense. If one were to dissolve coal tar in a solvent such as hexane, its fluorescence intensity would rival that of fuels because the solvent matrix is simply more suited to allow fluorescence to occur.

Figure 3 illustrates the differing decay times one might observe for 4 different PAHs, along with the time profile of the laser pulse that excited them. Now remember, these are large populations of PAHs being excited and while some begin emitting immediately, other individual PAH molecules "wait" many nanoseconds before emitting a photon. What is plotted here is a picture of the distribution of times that the PAHs are remaining in the excited state before emitting photons. Now in our case (sediments) we have many different PAHs of differing ring number and substitution levels. The bold curve in Figure 3 illustrates the fluorescence decay profile that would result if we observed the fluorescence of all four PAHs simultaneously. This is the fluorescence waveform that would result if all 4 different PAHs fluoresced with equal intensity (normalized to keep it on scale). This same concept is happening in the sediments. We are observing the sum of all the decay profiles for all the different PAHs that are absorbing and emitting photons with each pulse of the excitation laser. It should be noted that there is no predictable trend between decay rate and structure like the trend that exists between spectrum and structure as described below.

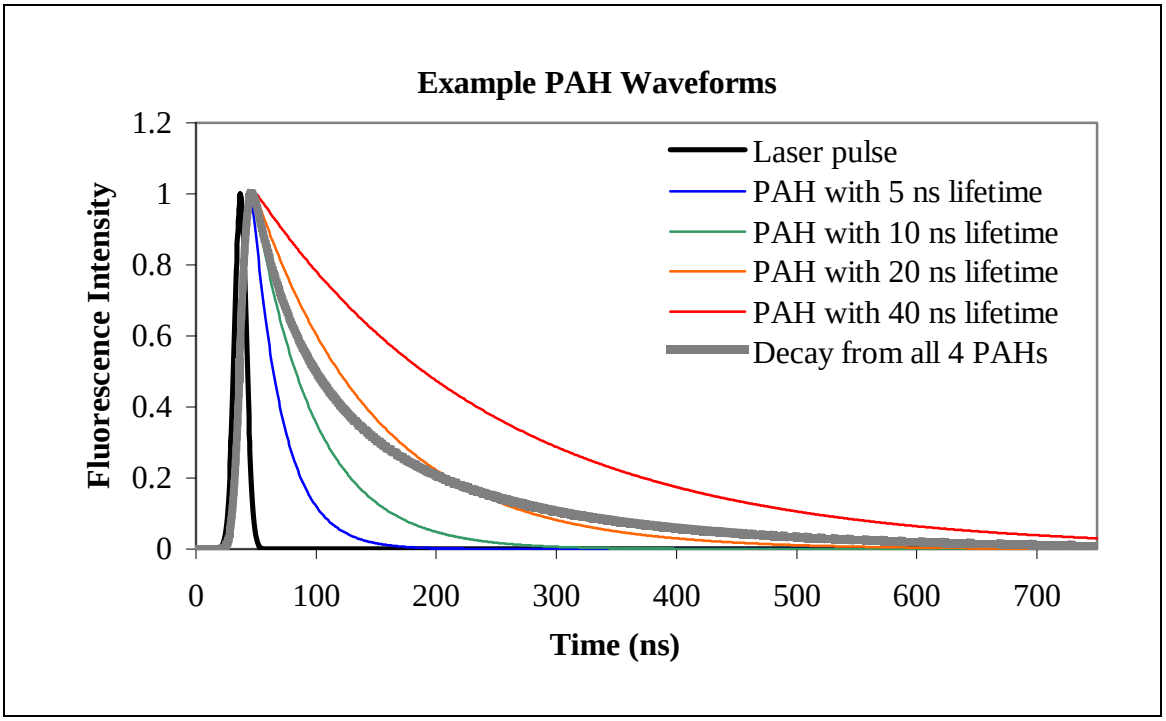


Figure 3. Temporal fluorescence examples

Of course the fluorescence decay profile observed in sediments is not made up of equal amounts of fluorescence from the various PAHs found in them. The wavelengths of light being emitted by (spectra) and the relative fluorescence yields of the different PAHs are all quite different, but the concept is still valid. The decay profile of the PAHs observed in the sediment results from the decay profiles of a mixture of different PAHs, along with fluorescence from other materials in the matrix.

PAH spectra

Let's take a look at the other property of the fluorescence emission of the same 4 example PAHs we showed at in Figure 3. This time we'll examine not the time over which they fluoresce, but instead the distribution of energies found in the photons they emit. Remember that the fluorescence emission spectrum of a pure PAH is simply a graphical representation of the energy distribution of photons that are emitted from a large population of the PAHs as they release energy that was absorbed from the excitation beam of light (in our case, a laser). Spectra of pure PAHs are typically acquired by dissolving a sample of the pure PAH in a pure solvent that does not fluoresce.

Figure 4 depicts the fluorescence emission spectra of the same 4 PAHs used in the temporal example in Figure 3. The laser wavelength is also shown in Figure 4, demonstrating the principle that fluorescence occurs at longer wavelength (lower energy) than the excitation wavelength (also known as Stokes' shift). The basic trend is toward longer wavelength emission as more rings are added or substitution increases. Naphthalene emits at around 340 nm and the spectra "red-shift" as the number of rings increase. Another general property of fluorescence is that for a pure PAH the emission spectrum remains the same irrespective of what wavelength of light is used to excite them (Kasha's rule). This is not true for mixtures however, because changing the excitation wavelength might well change which PAH are being excited and to what degree. The bold spectrum in Figure 4 is the combined spectra of all 4 PAHs. This is a simplified illustration of what generally happens if we observe the total fluorescence of a mixture of different PAHs. Any change

015567

in the relative amounts of the differing PAHs or changes in the matrix in which they exist will cause a change in the spectrum of light actually emitted.

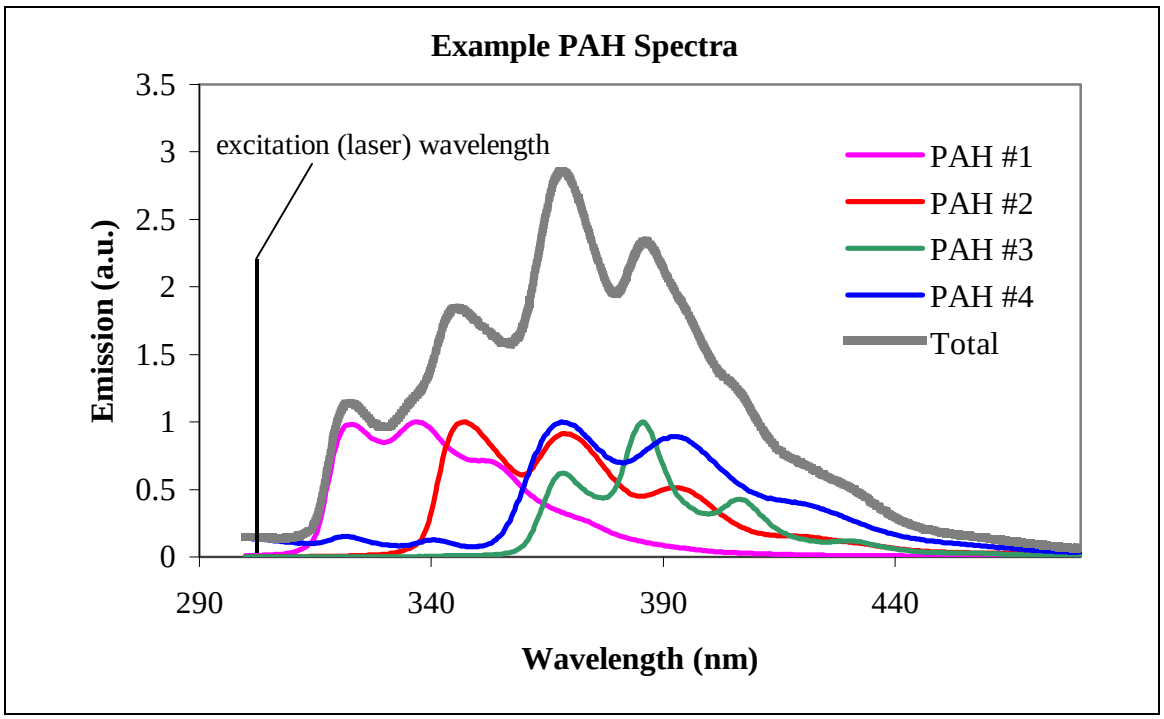


Figure 4. Spectral fluorescence examples

The fairly well defined structure (multiple peaks, valleys, and their various positions) of the spectra in Figure 4 suggests that perhaps one could use algorithms to extract information about the relative concentrations of the individual PAHs. While this is possible for very simple mixtures (2 to 3 PAHs) under controlled conditions, the algorithms quickly fail when many PAHs are present and interference fluorescence from humics, fulvics, and minerals is introduced. At best, one is able to use the overall shape of the total fluorescence spectrum to predict the *type* of mixture (diesel, coal tar, crude oil, etc.) and, in fact, this is routinely accomplished in environmental fluorescence forensics.

PAH multi-wavelength waveform (MWW)

The fluorescence of PAHs has both a spectral and temporal component. Real-world environmental samples typically contain at least several (if not dozens) of different PAHs along with other fluorophores, and the PAH fluorescence spectra overlap to form broad and fairly featureless spectral and temporal emission (compared to pure PAH spectra). If we were to record the temporal decay waveforms across the entire spectrum we would record what is called a wavelength-time matrix (WTM) that would describe the fluorescence emission completely. To create this we scan the emission selection monochromator from wavelength to wavelength, monitoring the pulsed emission vs. time at each wavelength with an oscilloscope.

Figure 5 contains the WTMs of diesel, jet, creosote, and gasoline on sand at several thousand ppm. The difference between the contaminants is clear and identification is straightforward. Dakota Technologies, Inc. (DTI) once employed these matrix style data sets to completely analyze the fluorescence of petroleum, oil, and lubricant (POL) contaminated soils. WTMs were (and still are) excellent for identifying/classifying the PAH fluorescence of environmental samples because of the unique information that both dimensions of PAH fluorescence exhibit when acquired in unison. While WTMs make different contaminants readily discernable from one another, they are

015568

3-dimensional and large. Also, the screening tool must be held still while the measurement is being made. All of these qualities make WTMs unwieldy for environmental screening tools that are designed to continuously log (typically 1 Hz) the presence of PAHs vs. time or depth.

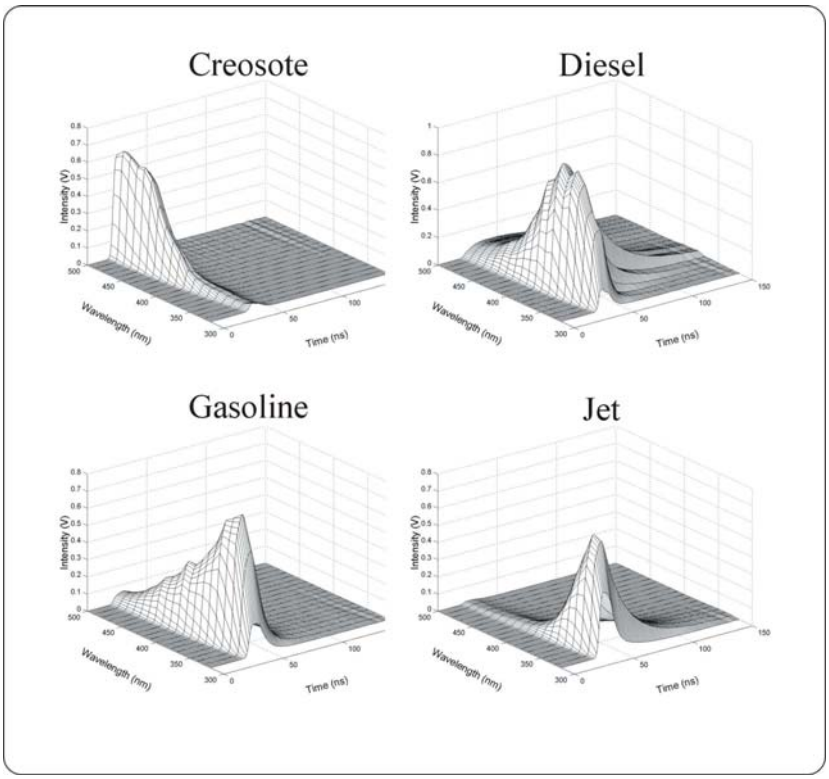


Figure 5. Example WTMs of common contaminants on sand

Because WTMs are so difficult to implement in screening mode, DTI developed (and patented) a multiple-wavelength waveform (MWW) technique that allows multi-dimensional PAH fluorescence measurements to be acquired "on the fly". Figure 6 illustrates the concept. Select regions of the spectrum are monitored for their temporal response. The responses are optically delayed and recombined, and the resulting responses converge to form one two-dimensional waveform. There is sometimes overlap between the "channels" with long decay times, and the spectral regions being monitored are fewer and farther between than WTMs, but the resulting waveform still retains a unique combination of spectral and temporal fluorescence information that makes speciation and identification of PAH mixtures possible. Figure 7 illustrates the unique waveform produced by a variety of common PAH-containing environmental contaminants.

015569

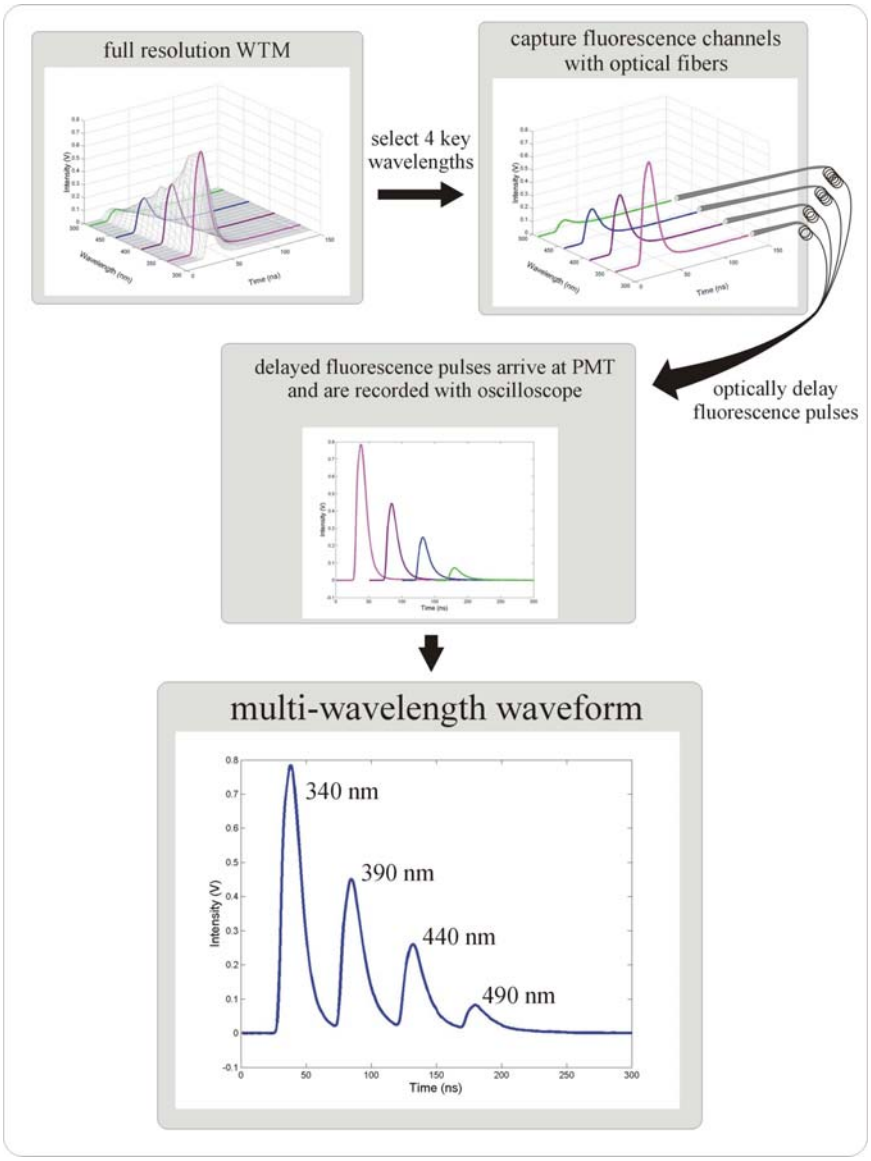


Figure 6. Multi-wavelength waveform concept

The ROST system acquires waveforms at ~1 Hz and logs them to the hard drive continuously. As described below (see Calibration and normalization) the waveforms are integrated to achieve a quantitative result that is plotted vs. depth. The shape of the waveform yields information on the nature of the fluorescing material. With experience the analyst learns to look for changes or similarities in the waveform and is able to assess changes in the analyte concentration or the matrix. For instance, are the decay times for the various channels changing due to changes in the PAHs or perhaps changes in oxygen levels that affect quenching? Is the emission shifting to shorter or longer wavelengths due to changes in the amount of degradation via biological activity, weathering, or volatilization? Is the first channel (closest to the laser) getting more or less contribution from laser scatter due to improper mirror alignment? These and a myriad of other questions and answers can be gleaned from the shape of this simple, yet informative, data format.

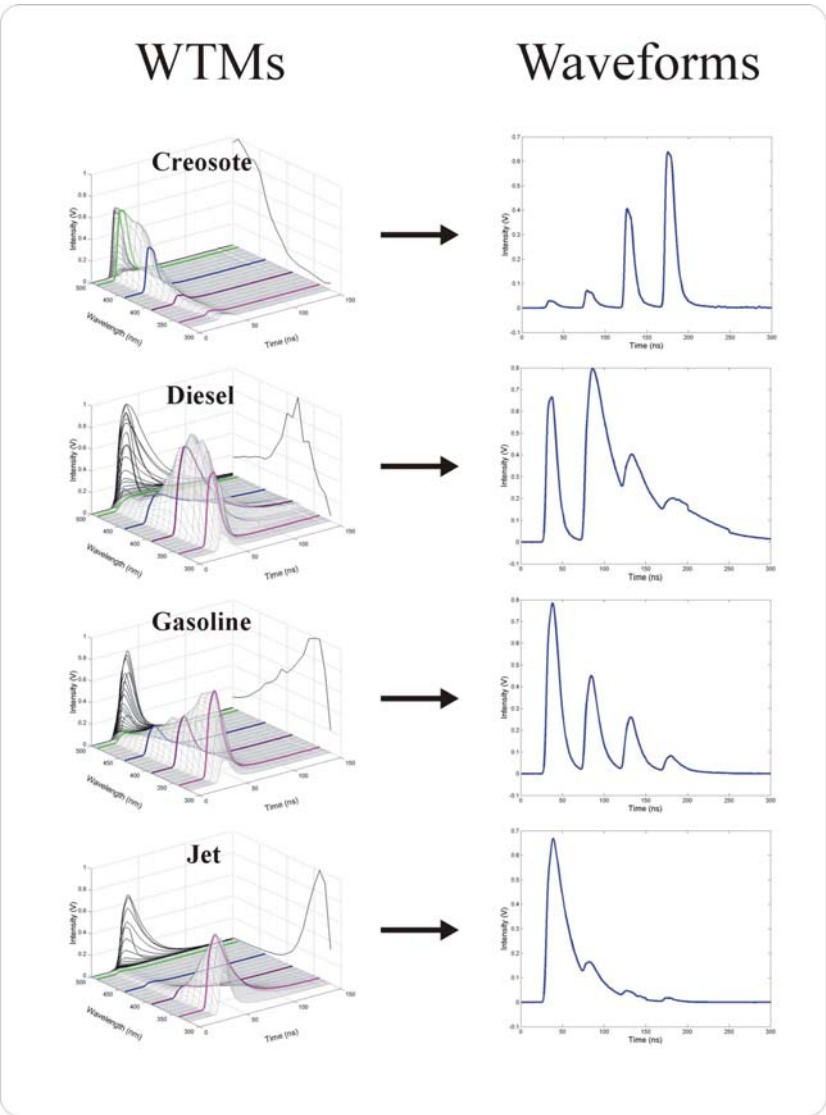


Figure 7. Waveforms of common contaminants

FVD colorization

The waveforms that are continuously logged vs. depth with ROST contain a wealth of information, but to make this information easily interpretable in fluorescence vs. depth (FVD) log format, we need to further reduce the data to a one-dimensional data set that we can plot vs. depth. As discussed, the quantitative information is contained within the area under the waveform (total fluorescence) but how do we convert a waveform's shape into a singular entity? To accomplish this, DTI has developed and implemented a novel technique that effectively converts the shape of the waveforms into colors. These colors are then used to fill in the area under the FVD that represents the total fluorescence measured at each point in the FVD. Figure 8, derived from data from a coal tar delineation project, illustrates the technique of colorizing the FVD according to the shape of the waveforms.

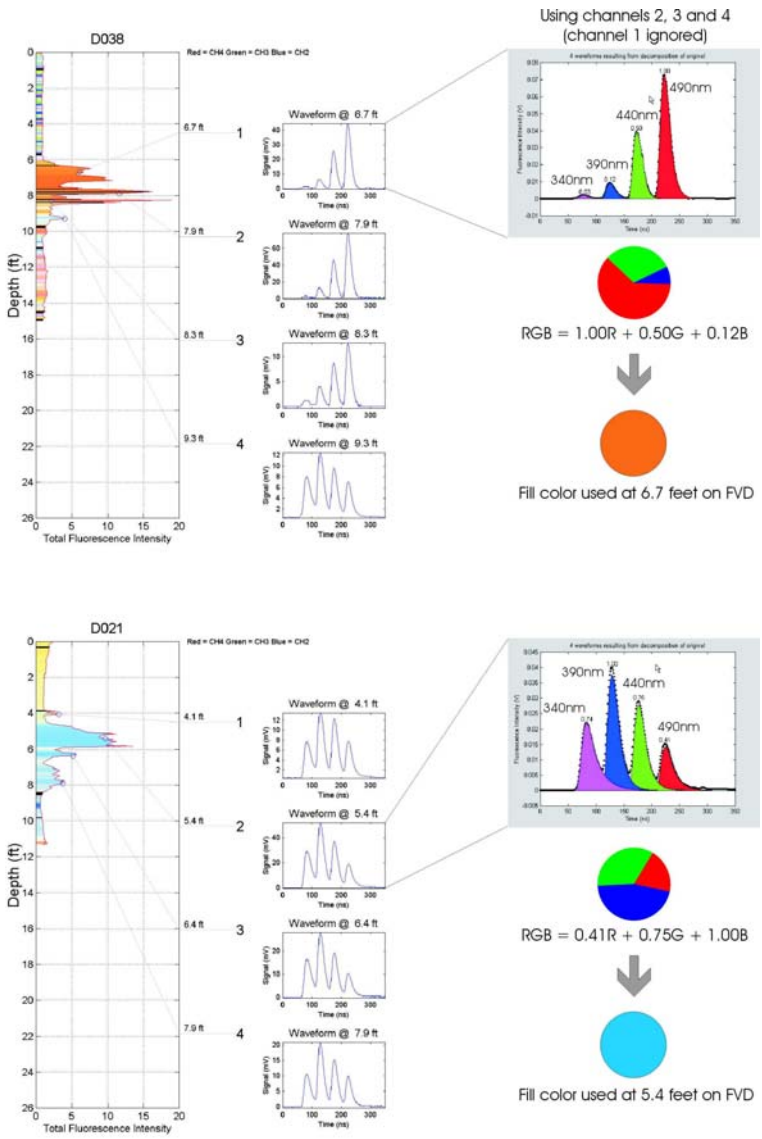


Figure 8. How color-coding is calculated

The result is a data presentation technique that allows the user to assess similarities or changes in the waveform shapes vs. depth by simply observing the colors that represent the shape of each and every waveform in the data set. This technique was used on the sediment measurements made in this project, both in the lab and in the field. It should be noted that the color black indicates that the algorithm that calculates the color failed to deconvolve the waveform successfully.

The colorization technique is limited to using three of the channels as a result of the red, green, and blue (RGB) color definition which computer colorization systems typically implement. A cyan, yellow, magenta, and black colorization system (CYMK) might allow the use of all four channels and is currently being considered as a replacement for RGB. The first three channels (340, 390, and 440 nm) were used to colorize the data in this study. The 490 nm channel was used in a quantitative sense, but was ignored for the colorization. It should be noted that a strictly temporal change (where only the decay times change, not the spectrum) would not necessarily result in a

color change, since the ratios of the 3 channels used might remain constant even though the area under the waveform itself will increase or decrease.

An added benefit of this technique is that it provides insight in situations where non-linear response behavior is encountered. Many contaminants such as coal tars, heavy crudes, and creosotes do not fluoresce with concentration in a linear fashion. For instance, a 10 fold increase in PAH concentration might produce very little or no increase in total fluorescence intensity. However, a spectral or temporal shift often does continue to occur with changes in concentration due to energy transfer, photon cycling, and other phenomenon. The color of the FVD fill continues to darken or shift in color, acting as an indicator of a change in the fluorescence of the sample, alerting the analyst to a possible increase in concentration. While this technique is less than analytical it does provide the analyst with additional insight into the distribution of PAHs in the soil vs. depth.

Calibration and Normalization

The ROST system response depends on a host of factors. These include laser energy, fiber termination quality, neutral density filter selection, parabolic mirror efficiency, and fiber length, just to name a few. To account for changes in these over time and location, a single point calibration and system check is performed. A reference emitter (coined M1) is placed on the sapphire window and the response is measured. The M1 solution is permanently stored in a quartz cuvette for convenience and the measurement takes place through the wall of the cuvette. This proprietary mix of hydrocarbons fluoresces efficiently across the entire system and serves as both an indicator of system function and as a data normalization benchmark.

The total fluorescence intensity (area under the waveform) of M1 serves to normalize the data from the push that immediately follows the reference emitter measurement. All the FVD logs are presented as a percentage of the signal achieved with M1. The area under every waveform in the data set is integrated, resulting in a pico-Volt-seconds unit (picoseconds * V or pVs). These values are divided by the pVs measured for M1, and the result is multiplied by 100. The result is a log with x-axis units of percent of M1. This creates a normalized data set that takes into account the entire system performance, from end to end (laser to oscilloscope). The shape of the M1 waveform acts to guide the operator in assessing proper alignment of the detection system. The relative contribution for each channel and the shape of M1 waveform is monitored for consistency to insure that the waveforms remain consistent from day to day.

015573

INCH

Rite in the Rain
ALL-WEATHER WRITING PAPER

1 Name

Address

2 Phone Email

Project

3

CONTENTS

PAGE	REFERENCE	DATE

If Found, Please Return to:

Name: _____

LOCKHEED MARTIN/REAC
2890 Woodbridge Avenue
Edison, NJ 08837-3679
Phone: (732) 321-4200

6 ***Rite in the Rain*** — A patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather. Using a pencil or all-weather pen, *Rite in the Rain* ensures that your notes survive the rigors of the field, regardless of the conditions.

RiteintheRain.com

SERAS-B-0313
WILCOX
277

01 Scale: 1 square = _____

015574

12/1/15 WILCOX 277

TF-08-02 LOGS 56" RECOVERY 0-5'
NO PID RESPONSE ENTIRE LENGTH
ENTIRE CORE IS MEDIUM STIFF DRY
RED & WHITE SANDY CLAY SAND VF-FINE
TOP 1'1/2 FEET OF CORE IS DARK BROWN
CLAYEY TOPSOIL
CORE #2 - 28" RECOVERY, REFUSAL AT
7'1/2' ACCORDING TO DRILLER NO PID
RESPONSE ALONG ENTIRE LENGTH
5'-5.75' - SAME
5.75 - 7'1/2 - STIFF RED & BROWN SANDY CLAY
SAND FINE TO VF (WEATHERED SHALE,
ABUNDANT ROCK (WEATHERED) FRAGMENTS
REFUSAL AT 7'1/2, BOTTOM OF BORING TF-08-02
TF-08-05 48" RECOVERY AT 0-5' NO
PID RESPONSE FOR 0-5'
0 - 0.75 DARK BROWN MOIST CLAYEY
0.75 - 3'1/2 - RED & WHITE ~~DENSE~~ STIFF DRY CLAY
TRACE V.F. SAND, MED PLAST
3'1/2 - 5'1/2 MED DENSE RED F-M SAND AND CLAY
TRACE ROCK FRAGMENTS, DRY
CORE #2 5'-10' 51" RECOVERY, NO PID RESPONSE
5'1/2 - 13 STIFF DRY RED & WHITE CLAY
CORE #3 32" RECOVERY 10-13' - REFUSAL
AT 13' NO PID RESPONSE ENTIRE
3' LENGTH

Scale: 1 square = 02

12/1/15 WILCOX 277

TF-08-04 46" RECOVERY 0-5'
DRILLER STATES REFUSAL AT 5' NO
PID RESPONSE ENTIRE CORE
0-0.75 DARK BROWN CLAYEY TOPSOIL
0.75-1.5 RED, DRY MED STIFF SANDY CLAY,
SAND F-M, LOW PLASTICITY
1.5-2.0 STIFF DRY RED CLAY
2-3 MED DENSE DRY RED & BROWN F-M
SAND & CLAY
3-5' MED DENSE RED & WHITE DRY FINE
SAND AND CLAY
BOTTOM OF BORING AT 5'
TF-08-01 46" RECOVERY 0-5' *DRILLER
STATES REFUSAL AT 5' BGS* NO PID
RESPONSE LENGTH OF CORE
0-0.75 REDDISH-BROWN CLAYEY TOPSOIL
0.75 1.6 MED STIFF DRY RED CLAY, LITTLE
FINE SAND
1.6-2 MED STIFF DRY BROWN CLAY
2-5 STIFF DRY RED & WHITE CLAY, LITTLE
FINE SAND, ABUNDANT WEATHERED ROCK
FRAGMENTS
BOTTOM OF BORING AT 5' BGS
TF-08-08 DRILLER STATES REFUSAL AT
13' BGS CORE #1 0-5' 45" RECOVERY
0-0.75' REDDISH-BROWN CLAYEY TOPSOIL

03 Scale: 1 square =

015575

12/1/15 WILCOX 277

0.25-5 MED STIFF RED+BROWN CLAY TRACE OF SAND LOW PLASTICITY

CORE #2 5-10' NO PID RESPONSE

5-6 RED MOIST FINE SAND + CLAY TRACE WEATHERED ROCK FRAGMENTS, ROOTS

6-11 STIFF TO VERY STIFF DRY RED + WHITE CLAY

CORE #3 10-13 DRILLER STATES REFUSAL AT 13' 36" RECOVERY

11-13 RED STIFF TO VERY STIFF DRY CLAY TRACE WEATHERED SHALE FRAGMENTS

BOTTOM OF TF-08-08 AT 13' BGS

TF-08-03 DRILLER STATES REFUSAL AT 2' BGS 24" RECOVERY, VP 12/2/15 NO PID RESPONSE

0-0.3 TOPSOIL

0.3-1.5' DARK + LIGHT BROWN FINE SAND + CLAY

1.5-2 SAME, WHITE

BOTTOM OF BORING AT 2' BGS

TF-08-06 48" RECOVERY DRILLERS STATES REFUSAL AT 5' BGS NO PID RESPONSE

0-1.0 DARK BROWN CLAYEY TOPSOIL

1.0-4 1/2 LT + DARK BROWN CLAY DARK BLACK AREAS AT 16'-18" AND 24-25"

PID READINGS OF 50-150 PPB AT 2 1/2-3'

Scale: 1 square = _____

04

12/1/15 WILCOX 277

4 1/2-5' RED F-M SAND + CLAY LITTLE WEATHERED ROCK FRAGMENTS

BOTTOM OF BORING TF-08-06 AT 5' BGS

~~TF-6~~ VP 12/2/15 Steve Poggi 12/1/15

12/2/15 WILCOX 277

TF-08-09 49" RECOVERY, DRILLER STATES REFUSAL AT 13'

CORE #1 0-5' NO PID RESPONSE

0-0.75 REDDISH BROWN CLAYEY TOPSOIL

0.75-7 MEDIUM STIFF RED + WHITE LOW PLASTICITY SANDY CLAY

9-11 RED MED STIFF DRY CLAY TRACE WEATHERED ROCK FRAGMENTS, V.F. SAND

CORE #2 5' RECOVERY, NO PID RESPONSE 5-10

CORE #3 10-13' 34" RECOVERY NO PID RESPONSE

11-13 STIFF DRY RED MED PLASTICITY CLAY LITTLE FINE SAND, WITH ROCK FRAGS

BOTTOM OF TF-08-09 AT 13' BGS

TF-08-07 DRILLER STATES REFUSAL AT 14' CORE #1 0-5' NO PID RESPONSE

0-0.15 BROWN CLAYEY TOPSOIL

0.5-1 1/2 RED + BROWN MED STIFF DRY CLAY TRACE FINE SAND

Scale: 1 square = _____

05

12/3/15 WILCOX 277

1 1/2 - 5 1/2 MED DENSE DRY RED F-M SAND AND CLAY

CORE #2 5' RECOVERY, NO PID RESPONSE

5 1/2 - 11 RED + WHITE MED STIFF DRY CLAY, LOW PLASTICITY

CORE #3 10-14 4'3" RECOVERY, NO PID RESPONSE

11-14 STIFF DRY RED MED PLASTICITY CLAY TRACE MED HARD SHALE FRAGMENTS

BOTTOM OF TF-08-07 AT 14'

TF-08-10 CORE #1 0-5' 46" RECOVERY

0-0.5 REDDISH-BROWN CLAYEY TOPSOIL

0.5-1.5 REDDISH-BROWN SANDY CLAY, LOW PLASTICITY, SAND IS FINE

1.5-2 WHITE STIFF DRY CLAY

2-3 DARK REDDISH BROWN SANDY CLAY, LOW PLASTICITY, SAND F-M

3-5 1/2 RED CLAY TRACE VF SAND SOFT, LOW PLASTICITY

CORE #2 5-10' 5' RECOVERY, NO PID RESPONSE

5 1/2 - 7 1/2 WET SOFT RED CLAY AND VF SAND

7 1/2 - 10 RED + WHITE STIFF MOIST CLAY TRACE FINE SAND

10-13 STIFF DRY RED MED PLASTICITY CLAY TRACE SOFT SHALE FRAGMENTS

BOTTOM OF TF-08-10 AT 13', DRILLER STATE REFUSAL AT 13'

Scale: 1 square = _____

12/3/15 WILCOX 277

TF-06-02 DRILLER STATES REFUSAL AT 4' 27" RECOVERY NO PID RESPONSE

0-0.5 - REDDISH-BROWN CLAYEY TOPSOIL

0.5-1.5 REDDISH-BROWN CLAY AND FINE SAND, SOFT, LOW PLASTICITY

1.5-4 RED + GRAY STIFF DRY CLAY TRACE V.F. SAND, LOW PLASTICITY

BOTTOM OF BORING TF-06-02 AT 4' BGS

TF-06-05 DRILLER STATES REFUSAL AT 6' 51" RECOVERY 0-5'

NO PID RESPONSE

0-0.75 BROWN CLAYEY TOPSOIL

0.75-2 SOFT LT BROWN LOW PLASTICITY CLAY

2-3 1/2 MED STIFF DRY WHITE CLAY TRACE VF SAND, MED PLASTICITY

3 1/2 - 4 1/2 RED CLAY + VF SAND, SOFT, DRY,

4 1/2 LOW PLASTICITY TRACE SS FRAGMENTS

4 1/2 - 6 SAME, WHITE

CORE #2 5-6' 15" RECOVERY, NO PID RESPONSE

BOTTOM OF TF-06-05 AT 6' BGS

TF-06-07 DRILLER STATES REFUSAL AT 1.5' 16 1/2 RECOVERY, NO PID RESPONSE

0-0.5 BROWN CLAYEY TOPSOIL

Scale: 1 square = _____

015577

12/2/15 WILCOX 277

0.5 - 1 SOFT BROWN LOW PLASTIC CLAY AND FINE SAND

1 - 1.5 STIFF DRY RED LOW PLASTIC CLAY TRACE SOFT ROCK FRAGMENTS

BOTTOM OF BORING AT 1.5' BGS

TF-06-10 DRILLER STATES REFUSAL AT 4' NO PID RESPONSE, BUT SLIGHT PETROLEUM ODOR WHEN OPENING LINER 37 1/2" RECOV

0-0.5 REDDISH-BROWN LOAMY TOPSOIL

0.5 - 1.5 REDDISH-BROWN SOFT DRY CLAY AND FINE SAND

1.5 - 2.2 DARK GRAY SOFT DRY CLAY + FINE SAND LOW PETROLEUM ODOR

2.2 - 2.6 GRAY SOFT LOW PLASTIC CLAY + FINE SAND, MOIST

2.6 - 4 GRAY MED STIFF DRY CLAY TRACE ROOTS, HIGH PLASTICITY

BOTTOM OF 06-10 AT 4' BGS

TF-06-06 DRILLER STATES REFUSAL AT 3' 28" RECOVERY, NO PID RESPONSE

0 - 0.25 DARK BROWN CLAYEY TOPSOIL

0.25 - 1.6 SOFT DRY RED MED PLASTIC CLAY

1.6 - 2 DARK GRAY SOFT CLAY SANDY CLAY LITTLE ROCK FRAGMENTS, TRACE ROOTS

2 - 3 SOFT DRY RED + BROWN CLAY + FINE SAND, MED PLASTICITY

BOTTOM OF BORING AT 3' BGS

08

Scale: 1 square = _____

12/2/15 WILCOX 277

TF-06-09 DRILLER STATES REFUSAL AT 8.5' BGS 40 1/2" RECOVERY NO PID RESPONSE

0 - 0.75 BROWN CLAYEY TOPSOIL

0.75 - 3 SOFT MOIST LOW PLASTIC RED CLAY AND FINE SAND

3 - 7 MEDIUM STIFF RED & GRAY DRY MED PLASTICITY CLAY TRACE FINE SAND

CORE #2 37 1/2" RECOVERY, NO PID RESPONSE

7 - 8 1/2 MED. STIFF DRY MED PLASTIC WHITE CLAY + FINE SAND

BOTTOM OF TF-06-09 AT 8.5' BGS

TF-06-08 DRILLER STATES REFUSAL AT 5.5' CORE # 46 1/2" RECOVERY, NO PID RESPONSE

0 - 0.75 DK BROWN CLAYEY TOPSOIL

0.75 - 2 REDDISH-BROWN SOFT DRY LOW PLASTIC CLAY AND FINE SAND

2 - 3 1/2 3 1/2

3 1/2 - 5.5 MED STIFF DRY LOW PLASTIC CLAY TRACE VF SAND

BOTTOM OF TF 06-08 AT 5.5' BGS

TF-06-04 DRILLER STATES REFUSAL AT 4' BGS 40" RECOVERY, NO PID RESPONSE

0 - 0.5 BROWN CLAYEY TOPSOIL

09

Scale: 1 square = _____

015578

12/2/15

0.5-1 SOFT DRY RED FINE SAND + CLAY, LOW PLASTIC

1-2.6 DARK RED MED DENSE FINE SAND + CLAY

2.6-4 STIFF DRY LOW PLASTIC CLAY

BOTTOM OF BOREHOLE AT 4' BGS

TF-CC-01 DRILLER STATES REFUSAL AT 1 FT BGS 12" RECOVERY

0-0.3 REDDISH-BROWN CLAYEY TOPSOIL

0.3-1.0 RED + WHITE SOFT DRY CLAY AND FINE SAND LOW PLASTICITY

BOTTOM OF TF-CC-01 AT 1' BGS

TF-CC-03 DRILLER STATES REFUSAL AT 3 1/2' 28" RECOVERY NO PID RESPONSE

0-0.3 DARK BROWN CLAYEY TOPSOIL

0.3-1.2 SOFT BROWN + RED DRY LOW PLASTIC CLAY AND FINE SAND

1.2-3 1/2 STIFF DRY GRAY AND WHITE MED PLASTIC CLAY LITTLE FINE SAND TRACE SOFT SANDSTONE FRAGMENTS

BOTTOM OF TF-CC-03 AT 3 1/2' BGS

P-04-07 DRILLER STATES REFUSAL AT 3' BGS 25" RECOVERY NO PE RESPONSE

0-0.75 DARK BROWN CLAYEY TOPSOIL

Scale: 1 square = _____

12/2/15

0.75-3 RED + GRAY SOFT DRY CLAY + FINE SAND

BOTTOM OF P-04-07 AT 3' BGS

P-04-06 DRILLER STATES REFUSAL AT 2FT, 21" RECOVERY, NO PID RESPONSE

0-0.5 REDDISH-BROWN TOPSOIL

0.5-2.5 MED STIFF DRY RED LOW PLASTIC CLAY AND FINE SAND

2.5-3 SAME, STIFF

BOTTOM OF P-04-06 AT 3' BGS

P-04-04 DRILLER STATES REFUSAL AT 1 1/2' NO PID RESPONSE 18" REC

0-0.5 DK BROWN CLAYEY TOPSOIL

0.5-1.5 DK BROWN TO RED TO LT BROWN SANDY CLAY MED STIFF DRY, LOW PLASTICITY

BOTTOM OF P-04-04 AT 1 1/2' BGS

P-04-05 DRILLER STATES REFUSAL AT 1 1/2' BGS 18" RECOVERY NO PID RESPONSE

0-0.5 WET BROWN CLAYEY TOPSOIL

0.5-1.5 BROWN AND RED MED STIFF CLAY AND FINE SAND TRACE SOFT ROCK FRAGMENTS

BOTTOM OF P-04-05 AT 1 1/2' BGS

P-04-08 DRILLER STATES REFUSAL AT 4 1/2' BGS 46" RECOVERY

Scale: 1 square = _____

015579

12/2/15

NO PID RESPONSE

0 - 0.4 DK BROWN CLAYEY TOPSOIL SOME ROOTS

0.4 - 1 SOFT DRY LOW PLASTIC SANDY CLAY, SAND FINE GRAINED

1 - 3.3 RED + GRAY CLAY, MED STIFF, TRACE F-M SAND, LOW PLASTICITY

3.3 - 4.5 STIFF DRY DARK RED LOW PLASTIC CLAY LITTLE F-M SAND TRACE SOFT ROCK FRAGMENTS

BOTTOM OF BORING P-04-08 AT 4 1/2' BGS

P-04-01 DRILLER STATES REFUSAL AT 4 1/2' BGS W6 1/2" RECOVERY PID READINGS OF 50 PPB - 150 PPB FROM 3 1/2 TO 4 1/2

0 - 0.5 SANDY TOPSOIL, DARK BROWN

0.5 - 3.0 SOFT DRY BROWN HIGH PLASTIC CLAY

3.0 - 4.5 RED + GRAY MED STIFF MED PLASTIC SANDY CLAY SLIGHT PETROLEUM ODOR 50 - 150 PPB ON PID FROM 3 1/2 - 4 1/2

Scale: 1 square = _____

12/2/15

P-04-02 DRILLER STATES REFUSAL AT 4' BGS 48" RECOVERY NO PID RESPONSE

0 - 0.5 DK BROWN SANDY TOPSOIL, SOME ROOTS

0.5 - 3 MED STIFF DRY HIGH PLASTICITY CLAY REDDISH - BROWN TRACE OF SAND

3 - 4 STIFF DRY RED + GRAY CLAY, DRY HIGH PLASTICITY TRACE SOFT ROCK FRAGMENTS

BOTTOM OF P-04-02 AT 4' BGS

P-04-03 DRILLER STATES REFUSAL AT 4 1/2' BGS 46 1/2" RECOVERY NO PID RESPONSE

0 - 0.75 BROWN CLAYEY TOPSOIL SOME ROOTS

0.75 - 2 SOFT DRY BROWN LOW PLASTIC CLAY LITTLE FINE SAND

2 - 2 1/2 SAME, WET

2 1/2 - 4 1/2 BROWN, GRAY + RED STIFF DRY SANDY CLAY LOW PLASTIC

BOTTOM OF BORING AT 4 1/2' Same page 12/2/15

12/3/15

LOR-04 DRILLER STATES REFUSAL AT 13.5' BGS

1ST CORE 0 - 5' 29 1/2" REC NO PID RESPONSE

Scale: 1 square = _____

015580

12/3/15

0 - 1 ASPHALT SUB BASE

1 - 1.5 BROWN DRY LOW PLASTIC SILT & F. SAND

1.5 - 4 SOFT DRY BROWN & GRAY SANDY CLAY SAND IS FINE SLIGHT HC LIKE ODOR, STRONGER WITH DEPTH TO 4'

CORE #2 5-10' 50" RECOVERY

PID = 1400 PPB TO 1740 PPB ~3' TO 4'

4 - 12 RED & WHITE SANDY CLAY

CORE #3 10-13 24" RECOVERY

NO PID RESPONSE

12-13.5 STIFF DRY RED & WHITE CLAY

BOTTOM OF BORING LOR-01 AT 13'1/2' BGS

LOR-12 CORE #1 0-5' 36" RECOVERY

NO PID RESPONSE

0 - 0.15 ASPHALT & SUB BASE

0.15 - 1.3 BROWN SANDY CLAY, MOIST, TRACE FINE ANGULAR GRAVEL

1.3 - 2.5 RED & WHITE SANDY CLAY (F. SAND) SLIGHT HC ODOR

2.5 - 5 DARK GRAY & BROWN MED STIFF CLAY MED PLASTIC

CORE #2 40" RECOVERY 5-10' PID = 600 AT 6', 2150 AT 7, AND 1700 AT 7'1/2

5-7 RED SANDY CLAY, SAND IS FINE

12/3/15

7 = 11'1/2 BROWN MED STIFF CLAY + GRAY

11'1/2 - 7 GRAY SOFT MOIST SANDY CLAY

12'1/2 → 18'1/2 RED SANDY CLAY VS 12/3/15 SAME

11'1/2 - 15' PID RANGE FROM 25 PPM TO ~~50 PPM~~

CORE #4 5' RECOVERY PID READINGS RANGE FROM 10-15 PPM FROM 15 - 18'1/2 18'1/2 - 20 NO RESPONSE

18'1/2 - 25 STIFF DRY GRAY LOW PLASTIC CLAY

CORE #5 3' RECOVERY PID READINGS RANGE FROM 5-10 PPM, HOWEVER SAMPLE IS "SOLAY" AND I'M NOT SURE HOW REPRESENTATIVE IT IS BOTTOM 2' IS SAME AS BOTTOM OF PREVIOUS CORE

25 - 26 STIFF DRY NON PLASTIC SANDY CLAY PID RANGE FROM 1000 PPB - 3500 PPB

BOTTOM OF LOR-12 AT 26'

LOR-07 CORE #1 0-5' 33'1/2" REC

0 - 0.5 DK BROWN TOPSOIL

0.5 - 8'1/2 REDDISH-BROWN SOFT MED PLASTIC CLAY 5 - 8'1/2 PID = 2000 - 2200 PPB

CORE #2 5-10' 54" RECOVERY

8'1/2 - 10'1/2 BROWN & GRAY SANDY CLAY, STRONG HC ODOR PID = 350 PPM, MOIST

CORE #3 10 - 13'1/2 36" RECOVERY

PID READINGS 150 - 250 PPM

015581

12/3/15

10 1/2 - 12 1/2 RED STIFF MOIST SANDY CLAY PID = 200-250 PPM

BOTTOM OF LOR-07 AT 12 1/2' BGS

1440 DRIVE EXTRA 10-15 CORE AT LOR-12, COLLECTED FD-01 (DUPLICATE SAMPLE)

Jenn Phaff

12/3/15

12/5/15

1145 FINISHED AT SCALE HOUSE AREA

VP, LW + AW MOB TO LOG WIL-AA-0

1ST CORE 0-5' 5' RECOVERY PID READINGS FROM 0-3 0 PPM 3-4' 10-30 PPM

4-5' 450-480 PPB

0-8 1/2 SOFT WET BROWN SANDY CLAY MED PLASTICITY SAND FINE GRAINED FOUL, SOUR ODOR, STRONG

CORE #2 5-10' 5' RECOVERY PID 5-7 1/2 100-200 PPB 7 1/2 - 8 500 PPB

8-10 40-50 PPB SAME ODOR, STRONG

8 1/2 - 13 STIFF DRY BROWN w/ GRAY HIGH PLASTICITY CLAY

CORE #3 5' RECOVERY PID READING 10-12 50-100 PPB 12-13 VP 12/5/15 500-1300 PPB

13 VP 12/5/15 -15 50-100 PPB

13 - 13.7 SOFT REDDISH BROWN DRY LOW PLASTICITY CLAY SOME FINE SAND

STILL EXHIBITS STRONG FOUL SOUR ODOR

13.7 - 15 MED STIFF DRY BROWN MED PLASTIC CLAY LITTLE FINE SAND STILL HAS STRONG ODOR

BOTTOM OF BORE WIL-AA-01 AT 15'

1400 VP MOBS TO LOG TEST PITS AND TO CLEAR WILCOX CPT BORINGS

WIL-05 TEST PIT ~ 20" DEEP

0-5" SANDY SILTY TOPSOIL, DARK GRAY

5"-20" BROWN LOW PLASTICITY CLAY, SOME FINE SAND NO ODORS, NO PID RESPONSE

WIL-06 TEST PIT ~ 15" DEEP

0-3" DARK BROWN SANDY TOPSOIL, SOME CLAY

3"-15" RED + BROWN DRY LOW PLASTICITY CLAY LITTLE FINE SAND NO ODORS

AT 7"-8" BGS IS A HARD BLACK SLAG LAYER - PID = 1040 PPB

WIL-10 TEST PIT ~ 24" DEEP

0-5" DARK BROWN SILT AND FINE SAND (TOPSOIL)

3"-18" BROWN FINE SAND AND CLAY, SOFT, LOW PLASTICITY, DRY

18"-24" SAME, MOIST PID @ 18" = 70 PPB

WIL-11 TEST PIT 18" DEEP

0-8 1/2" SILTY TOPSOIL WITH LARGE SLAG

8 1/2 - 18" REDDISH-BROWN SOFT DRY HIGH PLASTICITY CLAY

015582

12/5/15

CLAY - NO PID RESPONSE SLAG WHEN BROKEN 100-340 PPB

*WIL-13 TEST PIT ~18" DEEP

0-4" DARK BROWN SANDY TOPSOIL

SEE NEXT PAGE - LOGGING INTERRUPTED BY CAT RIG

WIL-19 TEST PIT ~19" DEEP

0-3" BROWN SANDY TOPSOIL

3"-7" GRAY & BROWN LOW PLASTICITY CLAY

7"-19" REDDISH-BROWN SOFT LOW PLASTIC CLAY SOME FINE SAND

UPPER 7" ALSO HAS COBBLES MIXED THROUGHOUT NO ODORS OR PID READINGS

WIL-18 TEST PIT ~17" DEEP

0-6" BROWN SANDY TOPSOIL

6"-12" ORANGE-BROWN LOW PLASTICITY CLAY

12"-17" GRAY BROWN FINE SAND & CLAY, SOFT, DRY, LOW PLASTICITY

NO ODORS OR PID RESPONSE IN TEST PIT

WIL-17 TEST PIT ~19" DEEP

0-5" LT BROWN SANDY TOPSOIL

5"-19" GRAY-BROWN SOFT LOW PLASTIC CLAY LITTLE FINE SAND, DRY

NO ODORS OR PID RESPONSE IN TEST PIT

12/5/15

WIL-16 TEST PIT ~17" DEEP

0-4" BROWN CLAYEY TOPSOIL

4"-11" STIFF DRY BROWN NON PLASTIC CLAY

11"-17" MED STIFF DRY DARK BROWN MED PLASTIC CLAY

NO ODORS OR PID RESPONSE IN TEST PIT WIL-16

WIL-15 TEST PIT ~16" DEEP

0-5" BROWN CLAYEY TOPSOIL

5"-16" SOFT GRAY BROWN CLAY, DRY, LOW PLASTIC NO ODORS OR PID RESPONSE IN TEST PIT WIL-15

*WIL-13 TEST PIT ~14" DEEP

0-3½" BROWN CLAYEY TOPSOIL

3½-5½" REDDISH-BROWN SOFT DRY LOW PLASTIC CLAY AND FINE SAND

5½-14" DARK GRAY FINE SAND AND CLAYEY SILT LITTLE SLAG, MED STIFF, NON-PLASTIC NO ODORS OR PID RESPONSE IN TEST PIT WIL-13

WIL-12 TEST PIT ~19" DEEP

0-3" REDDISH-BROWN DRY MED PLASTIC SANDY CLAY

3"-14" DARK GRAY F-M SAND, SILT, FINE GRAVEL AND SLAG

14-19" SOFT DRY REDDISH-BROWN SANDY SANDY CLAY

015583

12/5/15 (cont'd)

NO ODORS OR PID RESPONSE IN WIL-15

16:00 LW + AW REPORT NEARBY GUN FIRE, ALL PERSONNEL EXIT CLOSED AREA

Chris Foggo
12/5/15

12/7/15

0715 JP + JM ONSITE MOB TO SET UP FOR DAYS SAMPLING ACTIVITIES

0745 SAFETY MEETING

0800 ALL PERSONNEL MOBILIZE TO RESPECTIVE WORK AREAS

WIL-30 28" RECOVERY PID READINGS -

0-4' NO RESPONSE

4-5' 8500 - 9300 PPB

0 - 0.25 BROWN SANDY TOPSOIL, TRACE ROOTS, FINE ANGULAR GRAVEL, DRY

0.25 - 0.5 DARK GRAY FINE SAND & SILT TRACE FINE SUBANGULAR GRAVEL, DRY NON PLASTIC

0.5 - 8½ REDDISH-BROWN SOFT DRY SILT SOME FINE SAND, NON-PLASTIC MOIST AT 4' AND COLOR CHANGES TO GRAY

CORE #2 - 46" RECOVERY PID READINGS -

5-6 2400 PPB 6-7 162 PPM

7-8 100-200 PPM 8-9 10,000 - 14,000 PPB

12/7/15

9-10 2,000 - 3,000 PPB

8½-14 RED & WHITE MED STIFF SANDY CLAY DRY, LOW PLASTICITY

CORE #3 50" RECOVERY PID READINGS

10-12 ~10,000 PPB 13-14 300 - 350 PPB

END OF WIL-30 AT 14' BGS

WIL-29 CORE #1 0-5 46" RECOVERY

PID READINGS 0-2 1400 PPB 2-4 1,600 PPB

4-6 95,000 PPB 6-8 150 - 420 PPM

8-10 60,000 - 70,000 PPB

0-0.25 DARK BROWN SANDY TOPSOIL

0.25-1 DARK GRAY SANDY SILT, SOME SLAG

1-2 MED STIFF DRY MED PLASTICITY RED CLAY TRACE V.F. SAND

2-2½ DARK GRAY FINE SAND + SILT (STRONG HC ODOR)

2½-6½ MED STIFF DRY GRAY CLAY & FINE SAND (STRONG, SWEET HC ODOR)

6½-7.8 SOFT GRAY MED PLASTICITY CLAY (STRONG, SWEET HC ODOR)

7.8-10 STIFF DRY REDDISH-BROWN & GRAY NON-PLASTIC CLAY

BOTTOM OF WIL-29 AT 10' BGS

WIL-05 NO-0-5 CORE, RESAMPLED AND BROUGHT TO LOGGING SITE

1ST CORE 0-5 RECOVERY

015584

PID READINGS 0-2 0 PPB
2-4 ~~270 PPB~~ 4-6 0 PPB
6-8 270 PPB 8-10 350 PPB
10-12 2,300 PPB 12-14 4,500 PPB
14-23 NO READINGS SEE TO 15-23
FOOT CORE BEING SOFT, FLUFFY
MATERIAL COMING IN FROM ABOVE
0-0.3 BROWN SANDY TOPSOIL
0.3-2 SOFT DRY BROWN LOW PLASTICITY CLAY
2-6 1/2 STIFF DRY RED MED PLASTICITY CLAY
6 1/2-14 SOFT DRY GRAY & RED CLAY & FINE SAND, NON-PLASTIC WET AT 12'
14-16 STIFF DRY LOW PLASTICITY RED & GRAY CLAY
16-23 NOT LOGGED DUE TO WET CLAY AND SAND FALLING INTO HOLE. WHILE CHANGING CORE-BARREL
BOTTOM OF WELL-0.5' AT 23' BGS
WEL-25A 12/7/15 1ST CORE 0-5 5' RECOVERY
2ND CORE 5-10 5' RECOVERY
0-2 1/2 - DARK BROWN TO BROWN SOFT CLAY LITTLE FINE SAND, SLAG
2 1/2-3 1/2 SOFT DRY RED NON PLASTIC CLAY AND FINE SAND
3 1/2-6 1/2 RED MED STIFF DRY LOW PLASTICITY CLAY

PID READINGS 0 PPB UNTIL ~7'
7-8 510 PPB 8-9 5500 PPB
9-10 5500 PPB
6 1/2-13 MED STIFF DRY NON-PLASTIC CLAY AND FINE SAND ~~SAND~~ UP 12/13-
(FAINT SWEET HYDROCARBON ODOR)
PID 10-12 3000 PPB 12-14 20 PPB
14-15 0 PPB MOIST AT ~14'
CORE #3 5' RECOVERY
13-15 STIFF DRY RED & GRAY CLAY
LOW PLASTICITY CLAY
CORE #4 15-20' DID NOT LOG, LINER FILLED WITH WET, NON-COHESIVE SANDY "SOIL" DUE TO ENCOUNTERING WATER TABLE
BOTTOM OF WEL-25' AT 20' BGS
TF-1103 ~5' RECOVERY 0-5' CORE
#2 CORE 5' RECOVERY #3 CORE 5' RECOVERY
PID READING 0-5' 0 PPB
5-6 144 PPM 6-7 120 PPM
7-8 34 PPM 8-15 0 PPB
0-0.25 DARK BROWN CLAYEY TOPSOIL
0.25-1 REDDISH BROWN SANDY SILT
1-5 SOFT DRY REDDISH-BROWN CLAY, MED PLASTICITY
5-7 SOFT DRY GRAY SILT AND FINE SAND

015585

12/7/15

NON-PLASTIC

7-12.6 SOFT DRY LOW PLASTICITY SANDY CLAY WET AT 8'/2'

12.6-15 MED STIFF DRY BROWN & GRAY HIGH PLASTICITY CLAY

EOB OF TF-1103 AT 15' BGS

1700 FINISHED BACKING, START PACKING SAMPLES FOR SHIPMENT

1800 ALL PERSONEL OFFSITE

Steve Poggi

12/7/15

12/8/15

0720 SAFETY MTG ONSITE MOB TO START DAYS TASKS

TF-1105 CORE #1 0-5 19" RECOVERY

CORE #2 5-10 47" RECOVERY

CORE #3 10-15 5' RECOVERY

NO PID RESPONSE UNTIL ~7' BGS

7-8 12 PPM 8-9 65 PPM 9-10 200 PPM

10-12 165 PPM 12-14 4200 PPB

14-15 210 PPB

0-0.5 BROWN CLAYEY TOPSOIL

0.5-1.5 REDDISH-BROWN SOFT DRY CLAY

1.5-2.0 DARK GRAY SOFT DRY CLAY TRACE SLAG

2.0-6.0 MED STIFF DRY BROWN CLAY

12/8/15

SOME FINE SAND, TRACE ROOTS

6.0-8 MED STIFF DRY LOW PLASTICITY CLAY TRACE FINE SAND

8-13 GRAY DRY MED STIFF MED PLASTIC CLAY LITTLE FINE SAND (MOISTURE HC ODOR)

13-15 SAME, MILD HC ODOR

BOTTOM OF TF-1105 AT 15' BGS

TF-1201 #1 0-5 48" RECOVERY

#2 5-10 57" RECOVERY

#3 10 12½ 36" RECOVERY

PID READINGS 0-2 0 2-4 0 PPB

4-6 315 PPM 6-8 280 PPM

8-10 12.5 PPM 10-12 25 PPM

0-0.75 BROWN SANDY TOPSOIL, SOME ROOTS

0.75-5 MED STIFF DRY BROWN LOW PLASTIC CLAY, LITTLE SILT MOIST SEAM 4.75-5

5-8 MED STIFF DRY GRAY SANDY CLAY, LITTLE SILT, MODERATE HC ODOR

8-11 MED STIFF DRY RED SANDY CLAY LITTLE SILT NO ODOR

11-12½ STIFF DRY GRAY LOW PLASTICITY SANDY CLAY SAND FINE GRAINED, NO ODORS

015586

12/8/15 WILCOX 277

Bottom of Boring TF-1201 AT 12 1/2'

TF-1205 #1 0-5 46" Recovery

#2 5-10 46" Recovery

#3 10-15 5' Recovery

PID 0-2 0 PPB 2-4 0 PPB

4-6 0 PPB 6-8 64 PPM

8-10 260 PPM 10-12 352 PPM

12-14 528 PPM 14-15 PPM 806

0-0.5 Brown sandy topsoil some roots

0.5-6 Stiff dry brown low plasticity clay little silt trace fine sand

6-7 Med stiff dry red & white clay some fine sand

7-8 Stiff dry red low plasticity clay some fine sand

8-15 Med stiff dry med plasticity clay some fine sand, moderate HC odor

Bottom of TF-1205 at 15' BGS

Also collected FD-02 from 5-10' same interval as TF-1205 sample

TF-1206 #1 0-5 56" Recovery

#2 5-10 56" Recovery

No PID response entire length of TF-1206

12/8/15 WILCOX 277

0-0.5 Dark brown clayey topsoil, some roots

0.5-5 1/2 Stiff dry reddish-brown non plastic silt trace roots, V.F. sand

5 1/2-6 1/2 Same, no roots, little clay

6 1/2-7 1/2 Med stiff dry gray low plastic clay, some fine to medium sand

7 1/2-10 Stiff dry red & gray med plastic clay little silt, fine sand

Bottom of TF-1206 Boring at 10' BGS

WIL-2C Core #1 0-5 47" Recovery

Core #2 5-10 45" Recovery

PID 0-1 0 1-2 0

2-3 0 3-4 16 PPM

4-5 23 PPM 5-6 3 PPM

6-7 32 PPM 7-8 39 PPM

8-9 60 PPM 9-10 2736 PPM

0-2 Stiff gray dry non plastic clay, F-C sand & F-C angular gravel

2-3 Med stiff dry brown clay, med plasticity trace V.C sand

3-4 Same, dark gray, no odor

4-9 Stiff dry red med plastic clay trace VF sand

9-10 Med stiff dry white non plastic

015587

12/8/15 WILCOX 277

SILT TRACE CLAY, WEATHERED SAND STONE FRAGMENTS

END OF WIL-20 AT 10' BGS

WIL-35 CORE #1 0-5 5' RECOVERY

CORE #2 5-10 5' "

CORE #3 10-15 5' "

PID 0-2 0 2-4 366 PPM

4-6 1505 PPM 6-8 1999 PPM

8-10 955 PPM 10-12 398

13-14 725 PPM 14-15 143 PPM

0-0.5 DARK BROWN TOPSOIL, SOME ROOTS

0.5-6 1/2 SOFT DRY RED BROWN MED PLASTIC CLAY (SLIGHT HC ODOR) TRACE V.F SAND

6 1/2 - 8 1/2 MED STIFF DRY GRAY MED PLASTIC SANDY CLAY, SAND VF TO FINE, STRONG HC ODOR

8 1/2 - 13 SAME WITH LITTLE SILT, LOW PLASTICITY

13-15 MED STIFF DRY GRAY CLAY, MED PLASTICITY, LITTLE FINE SAND, SLIGHT HC ODOR

BOTTOM OF WIL-35 AT 15' BGS

WIL-14 CORE #1 0-5 5' RECOVERY

CORE #2 5-10 5' "

CORE #3 10-11 1' "

12/8/15 WILCOX 277

PID - 0-1 0 PPB 1-2 0 PPB

2-3 0 PPB 3-4 0 PPB

4-5 0 PPB 5-6 0 PPB

6-7 0 PPB 7-8 0 PPB

8-9 0 PPB 9-10 0 PPB

0-0.5 DK BROWN CLAYEY TOPSOIL LITTLE ROOTS

0.5-1 DARK BROWN DRY NON-PLASTIC SILT AND FINE SAND - LITTLE SLAG

1-3 MED STIFF DRY RED LOW PLASTIC CLAY LITTLE FINE SAND TRACE SILT

3-9 STIFF DRY RED MED PLASTIC CLAY TRACE V.F. SAND

9-10 STIFF DRY LOW PLASTICITY SILT, RED + WHITE

10-11 STIFF DRY WHITE NON-PLASTIC SILTY CLAY LITTLE VF SAND

BOTTOM OF BORE WIL-14 AT 11' BGS

1630 GEOPROBE DONE FOR TODAY START LABELING + PACKING COOLERS

1830 WITSON OFFSITE

Steve Pugh
12/8/15

015588

12/9/15 WILCOX 277

0720 of + JM onsite MOB to setup for days activities

AA-GW03 core #1 0-5 44" Recovery
core #2 5-10 50" "
core #3 10-15 57" "

PID 0-2 0 PPB 2-4 7860 PPB
4-6 9080 PPB 6-8 378 PPM
8-10 121 PPM 10-12 780 PPB
12-14 560 PPB 14-15 560 PPB

Entire core from ~2-15' exhibits a foul, sour, burnt rubber like odor

0-0.5 soft fine sand & silt, dry, tan
0.5-3 same, brown to dark brown
3-7 soft dry dark brown med plastic clay, trace of sand
7-10 stiff dry gray & brown silt, little clay, trace f. sand
10-12.3 brown & gray soft low plastic clay, little fine sand
12.3-15 med stiff to stiff dry brown med plasticity clay trace silt

Bottom of AA-GW03 at 15' BGS

1210 JF, AW & LW collected P-03-SAND sample from 0-6" from sandy clay pile at excavation area being used for bridge reconstruction

Scale: 1 square = _____

12/9/15 WILCOX 277

*WIL-41 core #1 0-5 *
core #2 5-10 *
core #3 *

* WIL-41 was not drilled today drillers obtained new soil sampling equipment and had to clean drill rods to use it properly WIL-41 should be completed tomorrow

1730 all personnel offsite

Bruce Pagge
12/9/15

12/10/15 WILCOX 277

0720 of + JM onsite - mob to start days activities

0725 safety meeting

0735 mobilize to work sites

WIL-41 0-5 33" Recovery
5-10 41" Recovery
10-15 31"

PID 0-2 0 PPB 2-4 3760 PPB
4-6 7700 PPB 6-8 36 PPM
8-10 21 PPM 10-12 66 PPM
12-14 22 PPM 14-15 16 PPM

0-0.5 dark brown sandy topsoil
0.5-3.5 dark brown sandy silt some light gray slag

Scale: 1 square = _____

015589

12/10/15 WILCOX 277

3.5-4.5 DARK GRAY SILT AND F-C SAND TRACE LIGHT GRAY SLAG

4.5-5.5 SOFT WET DARK GRAY CLAY SOME WOOD, TRACE V.F SAND

5.5-8.5 SOFT WET BROWN LOW PLASTICITY CLAY LITTLE ROOTS

8.5-13 SOFT GRAY LOW PLASTICITY WET SANDY CLAY, MODERATE HC ODOR

13-15 MED STIFF DRY RED FINE SAND AND SILT

BOTTOM OF WIL-41 AT 15' BGS

WIL-AA-10 0-5 5' RECOVERY

5-10 38" RECOVERY

PID 0-1 0 1-2 0

2-3 0 3-4 0

4-5 0 5-6 550 PPB

6-7 2650 PPB 7-8 12 PPM

8-9 24 PPM 9-10 8 PPM

0-6" MED STIFF DRY RED + WHITE SANDY CLAY

6"-5' STIFF DRY RED LOW PLASTIC CLAY

5'-9' MED STIFF DRY RED NON PLASTIC SILT TRACE ROOTS

9-10' MED DENSE WHITE DRY FINE SAND + SILT LITTLE WEATHERED SANDSTONE FRAGMENTS

BOTTOM OF WIL-AA-10 AT 10' BGS SAMPLED 8-10' DEPTH INTERVAL

Scale: 1 square = _____

12/10/15 WILCOX 277

WIL-AA-11 0-5 57" RECOVERY

5-10 57" RECOVERY

10-15 5' RECOVERY

PID 0-2 0 PPB 2-4 0 PPB

4-6 0 PPB 6-8 0 PPB

8-10 10 PPB 10-12 5740 PPB

12-14 29 PPB 14-15 0 PPB

ENTIRE CORE HAS SLIGHT FUEL SOOK BURNING RUBBER ODOR AS PREVIOUS AA SAMPLES

0-0.75 LT BROWN SANDY TOPSOIL, TRACE FINE ANGULAR GRAVEL

0.75-3 BROWN + GRAY MED STIFF DRY SILT, SOME F-C SAND

3-6 1/2 STIFF DRY BROWN NON PLASTIC SILT TRACE V.F. SAND

6 1/2-10 SOFT DRY GRAY-BROWN NON-PLASTIC SILT LITTLE FINE SAND

10-13 1/2 MED-STIFF DRY RED SANDY SILT

13 1/2-15 STIFF DRY RED MED PLASTIC CLAY

* BOTTOM OF WIL-AA-11 AT 15' BGS *

* CORRECTION - DRILLER'S DRIVE 15-20' CORE NO PID RESPONSE FROM 15-20 BUT CORE HAS DISTINCT AA ODOR

15-19 STIFF DRY RED MEDIUM PLASTIC CLAY

19-20 STIFF DRY GRAY HIGH PLASTICITY CLAY

Scale: 1 square = _____

015590

12/10/15 WILCOX 277

* BOTTOM OF WIL-41-11 AT 20' BGS *

1700 START PACKING + LABELING SAMPLES

1800 OF TO FEDEX TO SHIP VOLATILES

ALL OTHER PERSONNEL OFFSITE

Steve Piazza

12/10/15

12/11/15 WILCOX 277

0720 -SF + TM ONSITE, PREP FOR TODAYS SAMPLING ACTIVITIES

TF-34-01 5-10 5'REC 0-5' 36"REC

10-15 5'REC 15-20 5'REC

PID 0-2 0 PPB 2-4 0 PPB

4-6 0 PPB 6-8 130 PPM

8-10 22 PPM 10-12 20 PPM

12-14 19 PPM 14-16 2100 PPB

16-18 1530 PPB 18-20 550 PPB

0-1 DENSE MOIST F-C SAND AND F-C ANGULAR GRAVEL (CRUSHED STONE ROADWAY)

1-5 MED STIFF DRY BROWN SLT, SOME FINE SAND

5-9 1/2 SOFT WET DARK GRAY MED PLASTIC CLAY LITTLE VF SAND, STRONG HC ODOR

9 1/2 - 10 DARK GRAY DRY HIGH PLASTICITY CLAY, MODERATE HC ODOR

12/11/15 WILCOX 277

10-14 MED STIFF DRY RED CLAY, FAINT HC ODOR, HIGH PLASTICITY

14-15 SAME, LITTLE SAND, MOIST

15-20 STIFF RED AND GRAY DRY MEDIUM PLASTICITY CLAY

BOTTOM OF TF-34-01 AT 20' BGS

LOR-18 0-5 39" RECOVERY

5-10 49" RECOVERY

10-15 58" RECOVERY

PID 0-2 0 PPB 2-4 82 PPM

4-6 94 PPM 6-8 175 PPM

8-10 168 PPM 10-12 147 PPM

12-14 81 PPM 14-15 540 PPB

BOTTOM OF LOR-18 AT 15' COLLECTED 6-8' INTERVAL AND PID-03 AT SAME DEPTH

LOR-25A 0-5 46" RECOVERY

5-10 5' RECOVERY

10-15 5' RECOVERY

PID 0 → 5' = 0 PPB

7-10 25 PPM 10-11 28 PPM

11-12 2530 PPB 12-13 14.7 PPM

13-14 34 1/2 PPM 14-15 3000 PPB

0-1 BROWN DRY SOFT SANDY TOPSOIL

1-2.1 SOFT RED DRY SANDY SILT

2.1-2.5 MED DENSE WHITE SAND AND SILT SOME SANDSTONE FRAGMENTS

015591

12/11/15 WILCOX 277

2.5-7.5 SOFT DRY RED SILTY CLAY LITTLE V.F. SAND

7.5-10 SOFT GRAY DRY SILTY CLAY LITTLE VF SAND

10-11.5 SOFT WET BROWN CLAY TRACE FINE SAND, SLIGHT HC ODOR

11.5-14.5 MED STIFF DRY GRAY SILTY CLAY, LITTLE VF SAND, FAINT HC ODOR

14.5-15 STIFF DRY RED SILTY CLAY BOTTOM OF ~~BOR~~ BCR-254 AT 15' BGS COLLECTED ~~3-4'~~ INTERVAL DUE TO LIF PROFILE, EVEN THOUGH NO PID RESPONSE AND 12-14' DUE TO PID READINGS, GRAY COLOR, AND FAINT HC ODORS

1630 ALL PERSONNEL PREPPING SAMPLES FOR SHIPMENT

1715 ALL PERSONNEL OFFSITE

James Pugsley
12/11/15

12/12/15 WILCOX 277

0720 VP + JM ONSITE, SET UP TO PERFORM TODAYS SAMPLING ACTIVITIES, GATHER SUPPLIES, ETC

0800 VP + AW MOB TO TANK #3 FOR GPS COORDINATES

0910 VP MOBS TO COLLECT SLAG SAMPLE

12/12/15 WILCOX 277

FROM ETHYL AREA, TANK 34 BERM, AND AN ADDITIONAL SURFACE SAMPLE FROM ADDITIVES AREA

0930 COLLECTED SAMPLE OF SLAG PILE FROM ROADWAY SOUTHEAST OF ETHYL BLENDING AREA AND SCALE HOUSE (0-1")

1000 COLLECTED SURFACE SAMPLE (0-3") FROM WESTERN SIDE OF ADDITIVES AREA (0-3")

1030 COLLECTED SOFT SLAG SAMPLE FROM SIDEWALL OF TEST PIT AT WIL-54 (6"-12")

1200 LUNCH

1240 BACK ONSITE LAY AW MOB TO SELECT LOCATIONS WITH TRIMBLE, VP MOBS TO COLLECT SUSPECTED TANK BOTTOM SAMPLES FROM "RED GATE ROAD" 12/12/15 VP

1330 BACK ONSITE VP FINISHES LAYING LABELING SAMPLE JAR LIDS

1400 JM CALLS VP NEED SOLDERING GUN TO REPAIR ROST RIG VP TO TRACTOR SUPPLY

1445 VP DELIVERS SOLDERING GUN W/ JM MOB TO HELP TOM KRAY MAKE HIS MEASURING TAPE FOR ANOTHER SITE

015592

12/12/15 (CONT) WILCOX 277

1530 VP + CF MOB TO TOWN FOR FUEL FOR GENERATOR + EXCAVATOR

1630 RE-FUELING COMPLETE

1645 START PACKING SAMPLES FOR SHIPMENT

1500 ALL PERSONNEL OFFSITE

Steve Flagg
12/12/15

12/14/15 WILCOX 277

0720 VP + JM + CW ONSITE
START LABELING + SORTING BOTTLES FOR GROUNDWATER + SURFACE WATER SAMPLING PLANNED FOR TODAY

1030 VP + AW FINISH SAMPLING TF-34 DISCHARGE MOB TO TRAILER TO PLACE SAMPLES ON ICE

1230 LUNCH

1315 BACK ONSITE TO CONTINUE GW SAMPLING

1645 SAMPLES ON ICE, ALL PERSONNEL OFFSITE

Steve Flagg
12/14/15

015593

Lockheed Martin Information Systems and Global Services
Environmental Services/SERAS
2890 Woodbridge Ave, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200 Facsimile: 732-494-4021

APPENDIX K

Technical Memorandum for the Geophysical Investigation
at the
Wilcox Oil Company Superfund Site
Bristow, Oklahoma
June 2, 2016

Table of Contents

I.0 Executive Summary ES-1
1.0 GEOPHYSICAL SURVEY METHODS 1
1.1 EM31 Terrain Conductivity Meter 1
1.2 Ground Penetrating Radar 2
2.0 GEOPHYSICAL DATA PROCESSING 4
2.1 EM31 Data Processing 4
2.2 Interpretation of EM31 Data 5
2.3 GPR Data Processing 6
2.4 Interpretation of GPR Data 7
3.0 GEOPHYSICAL SURVEY RESULTS 9
3.1 East Tank Farm 9
3.1.1 Investigation Areas 1, 2, and 4 9
3.1.2 Investigation Area 3 9
3.1.3 Investigation Area 5 10
3.1.4 Investigation Area 6 11
3.1.5 Investigation Area 7 11
3.1.6 Investigation Area 8 12
3.1.7 Investigation Area 9 14
3.1.8 Investigation Area 10 14
3.2 West Side of the East Tank Farm 15
3.2.1 Investigation Area 11 15
3.2.2 Investigation Area 12 16
3.3 Wilcox Process Area 16
3.4 Lorraine Process Area 17
4.0 SUMMARY 18

I.0 Executive Summary

The objective of the geophysical survey at the Former Wilcox Refinery project was to utilize geophysical methods to develop a site wide map of the bedrock surface at the Former Wilcox Refinery and locate areas of contamination. Two geophysical methods (EM31 and GPR) were utilized at the site.

EM31 data were collected over known areas of petroleum contamination. After obtaining the signature, EM31 data were collected across the East Tank Farm, the Lorraine Process Area and accessible areas of the Wilcox Process Area. The resulting signature was compared to the site wide data for areas of suspected contamination.

The GPR was utilized to determine the depth to the top of the bedrock. GPR profiles were collected across each Investigation Area of the East Tank Farm, across traverses crossing the East Tank Farm, accessible areas in the Lorraine and Wilcox Process Areas. Several test pits were completed to verify the GPR data. The resulting information was used to create a bedrock contour map of the project (Figure ES-1) and a depth to top of rock map or soil thickness (Figure ES-2) for the site.

In general, the bedrock surface contours follow the ground surface contours. Soil thicknesses range from the ground surface to approximately 15 feet. Most commonly, the soil thickness is greater on the western side of the site including the Lorraine and Wilcox Process Areas and the western side of the East Tank Farm. Soil thicknesses on the west side are predominantly 7.5 to 15 feet thick. On the east side of the site (central and east side of the East Tank Farm) the soil thicknesses are thinner, generally less than 10 feet.

015596

1.0 GEOPHYSICAL SURVEY METHODS

1.1 EM31 Terrain Conductivity Meter

EM31 terrain conductivity is used extensively for environmental and geotechnical applications such as delineation of buried wastes, soft or wet soils, and potential sinkholes. The EM31 is an electromagnetic system with a transmitter coil mounted on one end and a receiver coil at the other end of a 12-foot long plastic boom. An audio-frequency alternating current is applied to the transmitter coil, causing the coil to radiate an alternating primary EM field. The time-varying magnetic field generates eddy currents in subsurface materials which have an associated secondary magnetic field with a magnitude and phase shift (relative to the primary field) that is dependent on the conductivity of the medium. The receiver coil measures the resultant effect of both primary and secondary fields. By comparing the signal at the receiver to that at the transmitter, the instrument records the components of the secondary field inphase (inphase data) and 90 degrees out-of-phase (quadrature/conductivity data) with the primary field.

The EM31 is configured so that the out-of-phase component is converted to bulk electrical conductivity in units of millimhos per meter (mmhos/m). The measured conductivity is an apparent conductivity that is the result of the various subsurface materials that are sampled by the EM field. It is referred to as terrain conductivity. The inphase component is read in parts per thousand (ppt) of the primary EM field and is generally adjusted in the field to read zero response over background materials. The inphase component generally represents current density and is a gross measure of the presence of buried ferrous metal debris.

The EM31 has a maximum effective exploration depth of approximately 5.5 meters (18 feet) when operating in the vertical dipole mode (horizontal coils) with the instrument at normal operating height of about 0.9 meters (3 feet). In the horizontal mode (vertical coils), the EM31 has an effective exploration depth of about nine feet and is most sensitive to materials immediately beneath the ground surface. The EM31 data were collected in the vertical dipole mode for this project.

Before the EM31 survey was conducted, a site base station was established. The location of the base station is shown on Figure 1. The optimum location for a base station is outside of the survey area as close to the survey area as possible. Due to the pipelines along the road, the location was selected inside of the East Tank Farm Area. GPR profiles were collected over this proposed location to determine if there were any subsurface features that would affect the EM31. Since the GPR profiles indicated there were no subsurface features the location was selected to be the base station. In addition, the EM31 will give inconsistent readings during calibration, indicating the presence of metallic objects such as pipelines.

015597

Once the location was selected, the EM31 was calibrated to this base station location. Over the course of the EM31 data collection, the background conductivity values ranged from 14 to 16 mmhos/meter. At the beginning of each field day, the EM31 was field calibrated at this base station. A second base file was collected at the end of each field day. Collection of base files at a consistent location is performed in case there is drift in the data due to atmospheric conditions. During the course of the investigation, morning background conductivity readings recorded at the base station varied between 14 and 16 mmhos/meter. Therefore, background terrain conductivity is considered to be 14 to 16 mmhos/m. The inphase reading is adjusted to zero ppt in the field. After the instrument was field calibrated, a base file was recorded and saved in the data logger memory. The base file collected a minimum of 30 seconds of EM data in the vertical dipole mode. Collection of base files each day also demonstrates that the EM31 is functioning properly. Based on the consistent and stable background readings each day, the EM31 data did not have any quality issues.

Before collecting field data, the data logger was programmed with the appropriate file name and recording parameters. Header information imbedded in the file contains the operator's initials and a time/date stamp. The data logger, an Archer 2® field pc, digitally stored the EM31 data and the horizontal positioning data. The Archer 2® has an internal global positioning system (GPS). EM31 and GPS data were collected simultaneously at a rate of 15 readings per second.

1.2 Ground Penetrating Radar

GPR is an electromagnetic instrument that transmits and records radar EM pulses. GPR systems produce cross-sectional images of subsurface features by transmitting discrete radar pulses into the subsurface and recording the echoes or reflections from interfaces between materials with differing dielectric properties. To conduct a GPR survey, an antenna containing a transmitter and a receiver is slowly pulled along the ground surface. The transmitter radiates short pulses of high frequency EM energy into the ground. When the wave encounters the interface between two materials having different dielectric constants (dielectric permittivity), a portion of the energy is reflected back. The contrast in dielectric permittivity between the two media can be quantified by a reflection coefficient at the media interface. The magnitude of the reflection coefficient increases as the contrast in dielectric constant increases. The signal is transmitted to a control unit, displayed on a color monitor, and digitally recorded.

The effective penetration depth of a radar system is controlled by the dielectric permittivity, the electrical conductivity (usually dictated by moisture content) of the soils and the frequency of the antenna. In highly conductive materials (such as clay), the pulse is dissipated at very shallow depths. Two-way travel time on the GPR records can furnish estimates of depth if the dielectric constant for subsurface materials is known. If it is unknown, then an approximate depth can be obtained by using published average dielectric constants for the site soils.

Resolution of the GPR system is dependent on the frequency of the antenna used during the survey. Very high frequency antennae (900 megahertz [MHz] or greater) can resolve

015598

small features (less than an inch in diameter) but can penetrate to a maximum depth of 2 feet or shallower. Lower frequency antennae (100 to 500 MHz) can resolve objects deeper in the subsurface (up to 50 feet below the ground surface [BGS], depending on soil conditions) but usually miss objects near surface. There is a tradeoff between depth penetration and resolution; in some cases, it may be necessary to utilize two or more antennae to collect the necessary depth and resolution information.

The GPR profiles collected at the site indicated the GPR energy extended to at least 10 feet BGS and in some cases on the site to nearly 12 feet BGS. This allowed for interpretation of the top of rock within 12 feet of the ground surface. On profiles where the GPR profile did not have a reflection indicative of bedrock, then the bedrock was assumed to be greater than the total depth of profile.

The GPR antenna is calibrated by the manufacturer. In order to document the antenna and GPR are functioning properly a test line is performed each day. Similar to the base station used with the EM31, a single line is marked on the ground surface and a test line is recorded along this line at the beginning and end of each field day. Although the resulting GPR images will not be duplicates of each other (due to daily soil moisture content), the images will be similar and they will demonstrate that the GPR and antenna are operational. Comparison of the morning and evening GPR traverses each day indicated there were no quality issues with GPR and antenna.

During the initial test line, operating and recording parameters such as the range (amount of time the instrument records after transmitting an EM pulse), scan rate (number of recorded traces or scans per second), transmitter pulse rate (frequency at which the EM pulses are transmitted), instrument gains, and filter settings. These settings are automatically stored in a header file with the digital GPR data. At the beginning of each day, the GPR retrieves these parameters from the internal project folder.

A SIR3000 GPR unit with a 400 Megahertz antenna, both manufactured by GSSI, Inc. of North Salem, NH, were utilized during this investigation. In order to record horizontal positioning data, an external GPS unit was mounted to the GPR survey cart. The SIR3000 records time stamps which are matched to time stamps recorded by the GPS. The RADAN7 GPR processing software, then merges the two files based on the time stamps. The time stamps are based on satellite time, not the local time zones.

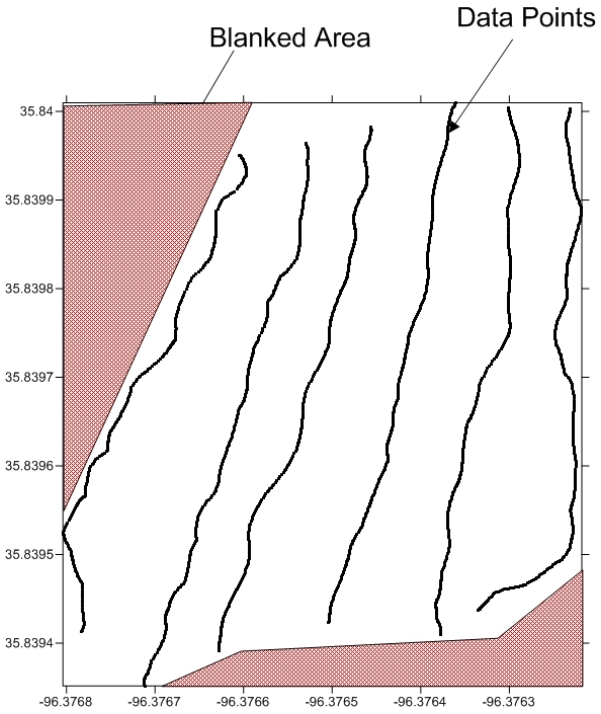
2.0 GEOPHYSICAL DATA PROCESSING

2.1 EM31 Data Processing

At the end of each field day, the Archer 2 field PC, was downloaded. The individual EM31 files are sorted by investigation area. Once sorted, the EM31 raw data files (files with an extension *.R31) are imported into the manufacturer supplied DAT31™ software. This software opens the *.R31 file and merges the GPS data together. The file is then saved as a data file with the *.G31 extension. This file is then exported as a data file in an XYZ format that is readable by the contouring software package Surfer© (Golden Software, Inc.).

The XYZ file (file extension *.DAT) includes the following data columns: longitude, latitude, conductivity, inphase, date, and time. If multiple data files were collected in the same investigation area over several days, the files were merged into one data file for contouring. In each investigation area, one EM31 data file was created. The EM31 data file was also prepared for entry to the SCRIBE software package. An additional column was added to the file (Location ID).

Each Investigation Area data file was processed through Surfer to create a color-contour figures representing the conductivity and inphase. A data post map was created to show the location of each data point collected within the Investigation Area. Because survey areas are rarely square, the post map will show areas that were not part of the survey area in order to incorporate the irregular shaped survey area. The following figure shows how the data is posted and the areas where no data exists are blanked.



These areas that are not part of the survey area are blanked out prior to contouring the data. By blanking out these areas, the contouring software does not try to include these areas where there is no actual data.

The new data file is then gridded using Kriging method. Two gridded sets are created (conductivity and inphase). A color contour interval scale is created to accommodate all of the investigation areas. It is preferred to create a consistent color contour scale to be used for all EM data on a particular site. In this survey, the EM31 conductivity scale was set to range from 0 to 100 mmhos/meter and the inphase scale was set to -20 to 2- ppt.

In several investigation areas, the conductivity values were negative. Negative conductivities do not occur in nature. The negative value is caused by the EM31 going off scale (greater than 1,000 mmhos/meter). The software is programmed to record this data as a negative value. For the purposes of these investigation areas, the negative conductivities corresponded to areas where surface metal was present as well as areas where elevated conductivities were being recorded within scale therefore the negative values were removed and not shown separately on the EM31 conductivity figures.

The inphase scale generally ranges from -18 to 18 ppt. The EM31 is set to zero during calibration, therefore in theory any response other than zero could be considered a detection of metal. However, the inphase readings can vary on a site due to atmospheric conditions, the person operating the equipment, etc. Therefore, it is common to provide a small range around zero to indicate the background range. After reviewing daily base station data, the overall data pattern across the site, and the EM31's response to known metal at the site, it was determined that at the Wilcox site the inphase readings of -3 to 3 ppt are generally considered background readings. Both ends of the contour scale (greater than 10 ppt and less than -10 ppt) are considered to be influenced by the presence of metal.

2.2 Interpretation of EM31 Data

Terrain conductivity surveying is a reconnaissance method of determining the electric and magnetic properties of subsurface materials. The conductivity measurement is dependent upon the density, porosity, moisture content, and the presence or absence of electrolytes or colloids in the subsurface materials. Because of the variety of factors that affect terrain conductivity measurements, the actual magnitude of the terrain conductivity values measured is less important than the trends and anomalies in the measurements.

An EM survey, which measures the conductivity of a volume of the subsurface, can be used to gauge the relative amounts of soil and rock within the area of measurement. High apparent conductivity measurements would imply a thicker soil cover and low or no rock volume present, while lower apparent conductivities would suggest a greater effect from bedrock, therefore indicating a thinner soil cover.

Very low conductivity values [approaching 0 mmhos/meter (mmhos/meter)] are usually the result of cultural interference but may also indicate air space and possible voids. The

015601

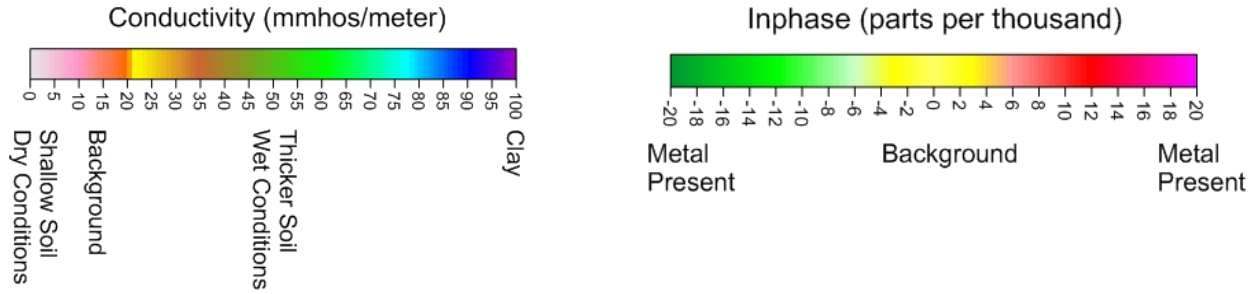
theoretical conductivity of air is 0 mmhos/meter. Utilities (above and below the ground surface) can significantly impact the data quality. Utilities observed while the geophysicist is collecting the data are noted in field notes and incorporated into the data processing and highlighted on the report figures when they are present.

A major objective of geophysical survey at the Wilcox Refinery Site was to delineate areas of hydrocarbon impacted soil. Crude oil contains impurities that will cause the conductivity values to be elevated. However, there is insufficient metals in the crude oil to cause the inphase readings to be elevated. Therefore, the EM31 data plots were reviewed for areas of high conductivity with low inphase readings. If the conductivity was elevated but the inphase was elevated as well, the data indicates the presence of metal.

Areas with low conductivity and low inphase values are typically thin soils or dry conditions. When an anomaly registers a low conductivity but a high inphase reading, surface interference is generally suspected.

During test pitting at the site, another set of conditions was encountered. An area of very high conductivity values with near background inphase values was detected at an investigation area. When a test pit was conducted at this location, a dense clay layer was encountered approximately 3.5 feet BGS. Clay will elevate conductivity values.

Based on the EM data collected during this investigation and comparison to known site conditions, the following color scales for the conductivity and inphase were adapted.



2.3 GPR Data Processing

The GPR files are downloaded to a computer along with the GPS data. The RADAN7 software package merges the two files together. The resultant file can be used to highlight individual anomalies or highlight layers within the subsurface.

Each GPR file is first corrected for the surface wave. On a raw GPR file, there is a banded reflection at the top of the profile. This is the surface wave and is caused by the GPR energy hitting the ground surface directly beneath the antenna. The surface wave is removed to correct the depth scale. Once the surface wave is removed, the edited file is opened and the top of the profile will show 0 feet (depth) and the band is gone.

Because the objective of the GPR survey is to determine the depth to rock, the GPR profiles were reviewed for layers. When individual anomalies of interest, such as pipes,

were observed they were noted as well. During processing the color scale of each of the profiles is kept in the black-gray-white scale.

The next step is to adjust the gain on the data. The gain is adjusted up or down depending on each profile. Normally the adjustment is minor but necessary to highlight some anomalies. The gain needs to be turned up in order to see small or unclear anomalies. But turning the gain up too high will cause all of the data to appear washed out. The concept is similar to audio- turn the music up loud enough to hear, but if it is too loud it is all noise.

After adjusting the gain, each profile was reviewed for the layer interpreted to be the top of bedrock. Information collected on the site, including visual observations, indicated the bedrock could range from 3 feet BGS to greater than 15 feet BGS. Since the GPR files are tied to GPS, the interpreted top of bedrock was highlighted on the profile and then exported as a comma delimited XYZ data file. The XYZ file (file extension *.CSV) includes the following data columns: longitude, latitude, depth to rock, surface elevation, elevation of bedrock, and date. The GPR files were exported individually but combined to one file for creating a top of bedrock elevation figure. An additional column (Location ID) was included for the file prepared for entry to the SCRIBE software package.

The GPR profiles were saved as image files (*.jpeg). Several GPR profiles have been included with this report. All of the GPR profile images will be submitted with the final report on a DVD.

2.4 Interpretation of GPR Data

A GPR records the echoes and reflections between interfaces to produce cross-sectional images. All media have a dielectric constant, the greater the difference between the dielectric constants of the two adjacent materials, the brighter the reflection (or color) will be on the GPR profile. It is important to remember that the color scales provided on GPR profiles represent the change in dielectric constants. The greater the difference in dielectric constants – the brighter the reflection will be on the profile. The color scales are unit-less.

The following table includes dielectric constants of materials encountered at the Wilcox Refinery.

Media	Dielectric Constant
Air	1
Water	81
Sand (Dry)	3-6
Sand (Wet)	25-30
Clay (Wet)	8-15
Clay (Dry)	3
Silt	10
Sandstone	6
Petroleum	2

When the change between two materials increases- for example going from a dry sand to a wet sand the color will shift to the right on the scale. When the change represents a decrease – such as silt to sandstone- the color will shift to the left on the scale.

At the Wilcox Refinery Site, the overburden material is primarily silt and sand, some clay was also observed. Since each of these materials would involve a dielectric shift to the right (increase) when the sandstone was encountered, the GPR profiles were reviewed for a bright, continuous reflection.

On many of the GPR profiles more than one bright, continuous reflections were observed. These areas were selected for test pits in order to determine what the multiple layers represented. After test pits were completed, the shallower reflection was found to be layers of clay/clayey silt. The deeper reflection was determined to be the top of the bedrock.

Copies of all of the raw and processed GPR data collected at the site along with the graphic files are included in a separate DVD. Several of the GPR profiles are too long for standard letter size paper. These GPR profiles were divided and saved separately.

3.0 GEOPHYSICAL SURVEY RESULTS

The following sections include the geophysical results for each of the investigation areas. Figures discussed in each of the sections are provided at the end of the report text. These results were based on the geophysical surveys data as well as the test pits that were completed during the geophysical survey. Additional drilling is planned at the site, data collected from the additional drilling will be used to refine the geophysical survey results.

Figure 1 depicts the site divided into five survey areas. These divisions were based on information obtained from historical photographs and other information sources. The geophysical survey concentrated on three of the survey areas: East Tank Farm, Lorraine Process Area, and Wilcox Process Area.

3.1 East Tank Farm

The East Tank Farm was divided into 11 Investigation Areas (IA). These IAs are shown on Figure 2 and were based on the historical photographs depicting possible above ground storage tanks (ASTs) or surface impoundments. All of the IAs required at least some brush clearing in order to perform the geophysical survey. Extensive brush clearing was performed in some of the IAs along the western portion of the East Tank Farm. Three of the IAs were eliminated from geophysical surveys due to dense underbrush and inability to access these areas.

Figures 3 and 4 present the EM31 conductivity and inphase data, respectively, collected over the East Tank Farm. Figures 5 and 6 present the bedrock elevation and soil thickness contours based on the interpreted GPR data, respectively. The following sections depict the results divided into individual IAs.

3.1.1 Investigation Areas 1, 2, and 4

IA1 was eliminated due to the dense brush. An attempt was made to survey IA2; however, the wet conditions at this location interfered with the GPR and EM31 data. IA4 was eliminated due to the dense brush. Figure 7 shows the locations of these three IAs.

3.1.2 Investigation Area 3

IA3 is located on the eastern side of the site, as shown on Figure 2. Figure 8 presents the EM31 conductivity data and Figure 9 presents the inphase data collected in IA3 using the site wide standardized color contour scales. The actual conductivity data ranged from 4 to 28 mmhos/m and the inphase data ranged from -1 to 2 ppt. The EM31 data collected at IA3 does not show the presents of any significant anomalies. The conductivity is lower on the west and central portions of the survey area. The inphase readings are within the acceptable background interval. The data does not indicate the presence of metallic features. The presence of low conductivity values coupled with no inphase response most likely indicates shallow bedrock or drier soil in the central and western sections compared to thicker soil or wetter soil to the north and east within the survey area.

Figure 10 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA3. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 10. Example profiles are presented in Figure 11.

Figure 12 presents a color-contour interval map of the interpreted bedrock elevation. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 776 feet and 787 feet above mean sea level (AMSL). When subtracting the bedrock elevation from the ground surface elevation the soil thickness is calculated. Figure 13 includes the soil thickness map which shows the thickness of the soil to range from approximately 7.5 to 12 feet. The depiction of soil thickness on Figure 13 is more refined than it is on Figure 8 because Figure 13 is built based on the GPR profiles that show actual depths. Each EM31 data point is a composite of 18 feet of the soil/bedrock column at each data point. The EM31 will show averages and the GPR will show profiles with specific depths.

3.1.3 Investigation Area 5

IA 5 is located on the north east corner of the site, as shown on Figure 2. Figure 14 presents the EM31 conductivity data and Figure 15 presents the inphase data collected in IA5 using the site wide standardized color contour scales. The actual conductivity data ranged from -49 to174 mmhos/m and the inphase data ranged from -20 to -26 ppt. The negative conductivities and extremely high readings are caused by interference from surface features. Underground and overhead utilities have been noted on Figures 14 and 15. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. In the central portion of the EM31 survey data, higher conductivities (50 to 75 mmhos/m) were observed. During the residential soil sampling effort, oil stained soil was observed within the tank area. These elevated readings may indicate the soil has been impacted by hydrocarbons or the soil is thicker in this area. The inphase data shows only two other anomalies besides the utilities. Both of these have been attributed to surface features.

Figure 16 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA5. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 16. Example profiles are presented in Figure 17.

Figure 18 presents a color-contour interval map of the interpreted bedrock elevation and Figure 19 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 810 to 834 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 3 to 8 feet, with the slightly thicker areas being located in the central portion of the survey area.

015606

3.1.4 Investigation Area 6

IA6 is located on the north perimeter of the East Tank Farm, and contains a pond on its eastern side. A private drive with a metal entrance gate at the north cuts across the areas in a west-east direction. A barbed wire fence is located between the pond and the driveway. Figure 20 presents the EM31 conductivity data and Figure 21 presents the inphase data collected in IA6 using the site wide standardized color contour scales. The actual conductivity data ranged from -54 to 92 mmhos/m and the inphase data ranged from -15 to 20 ppt. The negative conductivities and extremely high readings are caused by interference from surface features. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The presence of the fence has caused as elongated anomaly.

In the central portion of the EM31 survey data, higher conductivities (25 to 35 mmhos/m) were observed. These elevated readings may indicate the soil has been impacted by hydrocarbons or the soil is thicker in this area. The inphase data shows only one anomaly which is located on the north side of the survey area. This has been attributed to the fence.

Figure 22 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA6. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 22. Example profiles are present on Figure 23. Several utility or pipe-like features are shown on the GPR profile. A consistent bright reflective layer is present on the profile approximately 5 feet BGS which is interpreted to be the top of the bedrock.

Figure 24 presents a color-contour interval map of the interpreted bedrock elevation and Figure 25 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 804 to 840 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 4 to 15 feet. The orientation of the GPR profiles in this IA was primarily northwest to southeast which has caused the contours to appear elongated in that directions.

3.1.5 Investigation Area 7

IA7 is located on the north perimeter of the site along the public road and adjacent to the pipeline pumping station (Figure 2). This IA also includes a survey area where there were several ASTs in a cluster. The survey areas were joined together during data collection. Figure 26 presents the EM31 conductivity data and Figure 27 presents the inphase data collected in IA7 using the site wide standardized color contour scales. The actual conductivity data ranged from -18 to 100 mmhos/m and the inphase data ranged from -20 to 13 ppt. The negative conductivities and extremely high readings are caused by interference from surface features, in this IA the pipeline. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The

015607

inphase data shows one significant anomaly which is the pipeline traversing the survey area from southeast to northwest.

Figure 28 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA7. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 28. Example profiles are present on Figure 29.

Figure 30 presents a color-contour interval map of the interpreted bedrock elevation and Figure 31 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 782 to 820 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 5 to 15 feet. The orientation of the GPR profiles in this IA was primarily northwest to southeast which has caused the contours to appear elongated in that directions.

Two test pits were conducted within the IA7 area. They are labeled as TP7 and TP8 and are shown on the IA7 figures. Field notes from TP7 indicated the presence of sand and sandy clay to a depth of 5.5 feet BGS. Hard gray clay was encountered at 5.5 feet BGS; however, bedrock was not encountered. The depth to the top of the bedrock was interpreted from the GPR profiles to be greater than 7.5 feet at the TP7 location. Field notes from TP8 indicated the presence of sand and clay to a depth of 7.4 feet BGS. Bedrock was not encountered during the excavation. The depth to the top of the bedrock was interpreted from the GPR profiles to be greater than 7.5 feet at the TP8 location.

3.1.6 Investigation Area 8

IA8 is located on the east-central part of the site (Figure 2). This survey area is nearly bisected by the barbed wire fence. Figure 32 presents the EM31 conductivity data and Figure 33 presents the inphase data collected in IA8 using the site wide standardized color contour scales. The actual conductivity data ranged from 16 to 167 mmhos/m and the inphase data ranged from -19 to 18 ppt. The very high conductivity values (>100 mmhos/m) may be an indication of the presence of hydrocarbon impacted soil. The inphase data collected in the same area indicates data values slightly above the background readings. The EM31 low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The presence of the fence has caused an elongated anomaly.

Figure 34 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA8. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 34. Example profiles are present on Figure 35.

Figure 36 presents a color-contour interval map of the interpreted bedrock elevation and Figure 37 includes the interpreted soil thickness. Based on the

interpretation of the GPR data, the elevation of the top of the bedrock ranges between 802 to 834 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 4 to 8 feet.

Six test pits were completed within the vicinity of the IA8 survey area. Four are located within the IA8 survey area, they are labeled as TP1, TP2, TP3, TP4a, TP5 and TP46 and are shown on the IA8 figures. Two additional test pits, TP5 and TP6, were completed on the west side of the Tar Pit Area adjacent to IA8.

Field notes from TP1 indicated the presence of sand and clay to a depth of 6.6 feet BGS. Bedrock was not encountered during the excavation. The depth to the top of the bedrock was interpreted from the GPR profiles to be approximately 5 feet BGS at the TP1 location. After reviewing the results of TP1, the GPR profile was re-evaluated and based on the findings of TP1 the interpretation of the top of the bedrock was revised due to the presence of the clay in the soil. All GPR profiles were reviewed for potential clay layers.

Field notes from TP2 indicated weathered rock was encountered at the depth of 4 feet BGS. The depth to the top of the bedrock was interpreted from the GPR profiles to be approximately 5 BGS.

TP3 was excavated within the very high conductivity anomaly. According to field notes recorded during the test pit, a dense wet clay was encountered at 2.3 feet below the ground surface. Wet clay would appear in the EM conductivity data has an elevated reading. Bedrock was not encountered during the excavation; however, the depth to the top of the bedrock was interpreted from the GPR profiles to be approximately 5 to 6 feet BGS at the TP3 location.

Field notes from TP4a indicated the presence of sandy clay to a depth of 3.7 feet BGS. Friable sandstone was found at 3.7 feet BGS. The depth to the top of the bedrock was interpreted from the GPR profiles to be approximately 5 feet BGS at the TP4a location. This difference may be due to the GPR detecting the competent/hard bedrock.

Field notes from TP5 indicated the presence of a black material approximately 2.2 feet BGS which may be the tar layer. Continued excavation of TP5 indicated the presence of sand and clay to a depth of 5.4 feet BGS. The depth to the top of the bedrock was interpreted from the GPR profiles to be approximately 6 to 7 feet BGS.

Field notes from TP6 indicated the presence of tar and oil below the grass. Sand and clay were present to a depth of approximately 3.6 feet BGS. Hard clay with some sandstone was present to a depth of 7.5 feet BGS when the excavation was stopped. The depth to the top of the bedrock was interpreted from the GPR profiles to be between 7.5 and 10 feet.

015609

3.1.7 Investigation Area 9

IA9 is located in the southern portion of the site (Figure 2). Figure 38 presents the EM31 conductivity data and Figure 39 presents the inphase data collected in IA9 using the site wide standardized color contour scales. The actual conductivity data ranged from -33 to 43 mmhos/m and the inphase data ranged from 0 to 2 ppt. The negative conductivities and extremely high readings are caused by interference from surface features and the previously known pipeline. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The inphase data is considered to be background with no metallic features present.

Figure 40 shows the locations, direction of travel, and profile identifier of the GPR files collected in IA9. Locations of individual anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 40. Example profiles are present on Figure 41. A previously unknown pipe or utility was detected on the GPR profiles collected in this area. The location of this pipe-like anomaly is marked on the GPR profile and on Figure 41. Review of all of the GPR profiles around IA9 indicate the pipe-like anomaly is either not continuous or it turns at some location. Therefore, the end points of the pipe have not been marked on the figures.

Figure 42 presents a color-contour interval map of the interpreted bedrock elevation and Figure 43 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 790 to 812 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 5 to 15 feet. Limited elongation of the data has occurred along the western side of the survey area due to the orientation of the GPR profiles.

Two test pits were conducted within the IA9 area. They are labeled as TP4b and TP9 and are shown on the IA9 figures. Field notes from TP4b indicated the presence of sandy clay to a depth of 6.1 feet BGS. Sandstone was encountered at 6.1 feet BGS. The depth to the top of the bedrock was interpreted from the GPR profiles to be greater than 7.5 feet at the TP4b location. The discrepancy between the two interpreted depths is most likely the result of either contouring artifact issue in the software or the clay later present at TP4b.

Field notes from TP9 indicated the presence of sand and clay to a depth of 7.5 feet BGS. Bedrock was not encountered during the excavation. The depth to the top of the bedrock was interpreted from the GPR profiles to be greater than 10 feet at the TP9 location.

3.1.8 Investigation Area 10

IA10 is located in the central area of the site adjacent to a settling pond (Figure 2). Figure 44 presents the EM31 conductivity data and Figure 45 presents the inphase

data collected in IA10 using the site wide standardized color contour scales. The actual conductivity data ranged from -35 to 126 mmhos/m and the inphase data ranged from -17 to 10 ppt. The negative conductivities and extremely high readings are caused by interference from surface features, in this IA a previously unknown anomaly with characteristics of an underground pipe has been detected. The location and orientation of this anomaly align with the unknown anomaly detected during the survey of IA9. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock.

In the southeast section of this survey area, the EM31 conductivity readings range from 65 to 95 mmhos/m. This location is adjacent to the settling pond which has hydrocarbon visible on the ground surface. Except for the unknown pipe-like anomaly, the inphase data do not indicate the presence of significant amounts of metallic material.

Figure 46 shows the locations, directions of travel, and profile identifier of the GPR files collected in IA10. Locations of anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 46. Example profiles are presented in Figure 47.

Figure 48 presents a color-contour interval map of the interpreted bedrock elevation and Figure 49 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 774 to 804 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 7.5 to greater than 10 feet.

Two test pits were conducted within the IA10 area. They are labeled as TP10 and TP11 and are shown on the IA10 figures. Field notes from TP10 and TP11 indicated the test pits were excavated to a depth of 9.5 feet and bedrock was not encountered. The depth to the top of the bedrock was interpreted from the GPR profiles to be at least 10 feet at these locations.

3.2 West Side of the East Tank Farm

IA11 and IA12 are located on the west side of the East Tank Farm perimeter and straddle the boundary between the East Tank Farm and the Wilcox Process Area. Figures 50 and 51 present the EM31 conductivity and inphase data, respectively, collected over the west side of the East Tank Farm. Figures 52 and 53 present the bedrock elevation and soil thickness contours based on the interpreted GPR data, respectively. The following sections depict the results divided into individual IAs.

3.2.1 Investigation Area 11

IA11 is located in the western section of the tank farm (Figure 2), partially within the Wilcox Process Area. The area available for surveying was limited due to the brush and the perimeter fence. Figure 54 presents the EM31 conductivity data and Figure 55 presents the inphase data collected in IA11 using the site wide

standardized color contour scales. The actual conductivity data ranged from -33 to 107 mmhos/m and the inphase data ranged from -11 to 9 ppt. The negative conductivities and extremely high readings are caused by interference from surface features. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The inphase data is considered to be background with no metallic features present.

Figure 56 shows the locations, directions of travel, and profile identifier of the GPR files collected in IA11. Locations of anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 56. Example profiles are presented in Figure 57.

Figure 58 presents a color-contour interval map of the interpreted bedrock elevation and Figure 59 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 776 to 788 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 5 to greater than 10 feet.

3.2.2 Investigation Area 12

IA12 is located south of the IA11 (Figure 2), partially within the Wilcox Process Area. The area available for surveying was limited due to the brush. Figure 60 presents the EM31 conductivity data and Figure 61 presents the inphase data collected in IA12 using the site wide standardized color contour scales. The actual conductivity data ranged from -63 to 168 mmhos/m and the inphase data ranged from -19 to 2 ppt. The negative conductivities and extremely high readings are caused by interference from surface features, in this IA influence from metal objects and fencing. The low conductivity values (ranging from 12 to 25 mmhos/m) have been interpreted to represent shallow bedrock. The inphase data is considered to be background with several small metallic features present.

Figure 62 shows the locations, directions of travel, and profile identifier of the GPR files collected in IA12. Locations of anomalies detected by the GPR that are not linear features interpreted to be bedrock are shown on Figure 62. Example profiles are presented in Figure 63.

Figure 64 presents a color-contour interval map of the interpreted bedrock elevation and Figure 65 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 766 to 782 feet AMSL. The soil thickness map which is similar to the EM31 data in that it shows the thickness of the soil to range from approximately 7.5 to greater than 10 feet.

3.3 Wilcox Process Area

The location of the Wilcox Process Area is shown on Figure 1. Figure 66 presents the EM31 conductivity data and Figure 67 presents the inphase data collected within the

015612

Wilcox Process Area using a class-post color scale. There were insufficient data collected within the Wilcox Refinery to create a contour map. The classed post figure represents the data divided into actual ranges, not contours. There is insufficient EM data to interpret any significant anomalies.

Figure 68 shows the location, directions of travel, and profile identifier of the GPR files collected in the Wilcox Process Area. Locations of anomalies detected by the GPR that are not linear feature interpreted to be bedrock are shown on Figure 68. Example profiles are presented in Figure 69.

Figure 70 presents a color-contour interval map of the interpreted bedrock elevation and Figure 71 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges between 782 and 808 feet AMSL. The soil thickness ranges from approximately 8.5 to greater than 10 feet.

3.4 Lorraine Process Area

The location of the Lorraine Process Area is shown on Figure 1. Figure 72 presents the EM31 conductivity data and Figure 73 presents the inphase data collected with the Lorraine Process Area using the site side standardized color contour scales. The actual conductivity data ranged from -80 to 204 mmhos/m and the inphase data ranged from -16 to 20 ppt. Elevated conductivity readings indicate the presence of numerous anomalies that may represent piping or potential contamination. The inphase data were influenced on the west side of the survey area by the perimeter fence.

Figure 74 shows the location, directions of travel, and profile identifier of the GPR files collected in the Lorraine Process Area. Locations of anomalies detected by the GPR that are not interpreted to be bedrock are shown on Figure 74. Example profiles are presented in Figure 75.

Figure 76 presents the color-contour interval map of the interpreted bedrock elevation and Figure 77 includes the interpreted soil thickness. Based on the interpretation of the GPR data, the elevation of the top of the bedrock ranges from 778 to 804 feet AMSL. The soil thickness map shows the thickness of the soil to range from 7.5 to greater than 10 feet.

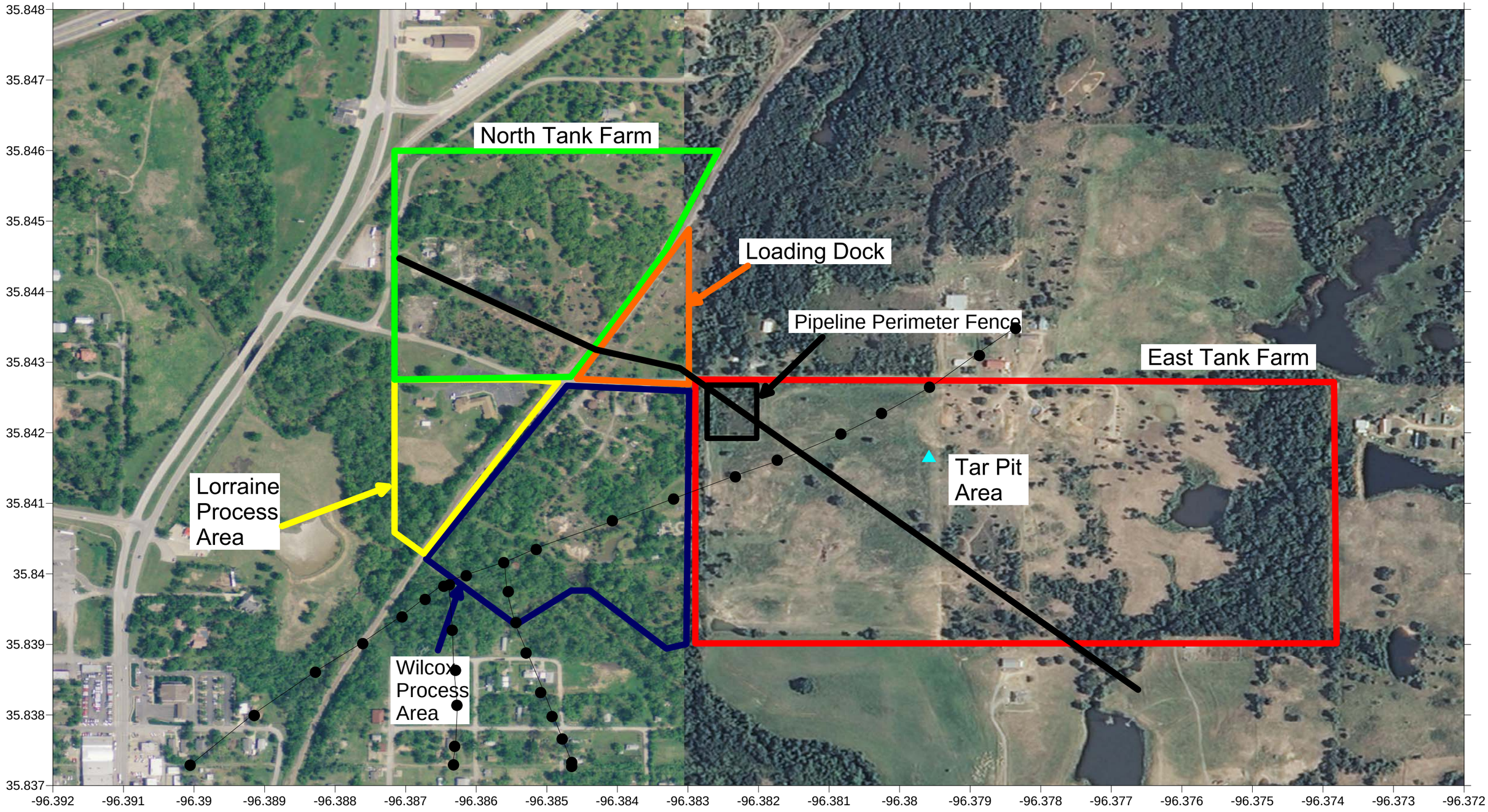
015613

4.0 SUMMARY

The objective of the geophysical survey was to develop a site wide map of the bedrock elevation contours and the depth to bedrock contours. Figure 78 depicts the site wide bedrock surface elevations. In general, the bedrock surface contours follow the ground surface contours.

Figure 79 is the interpreted soil thickness map across the site. Soil thicknesses range from the ground surface to approximately 15 feet. Most commonly, the soil thickness is greater on the western side of the site including the Lorraine and Wilcox Process Areas and the western side of the East Tank Farm. Soil thicknesses on the west side are predominantly 7.5 to 15 feet thick. On the east side of the site (central and east side of the East Tank Farm) the soil thicknesses are thinner, generally less than 10 feet.

015614

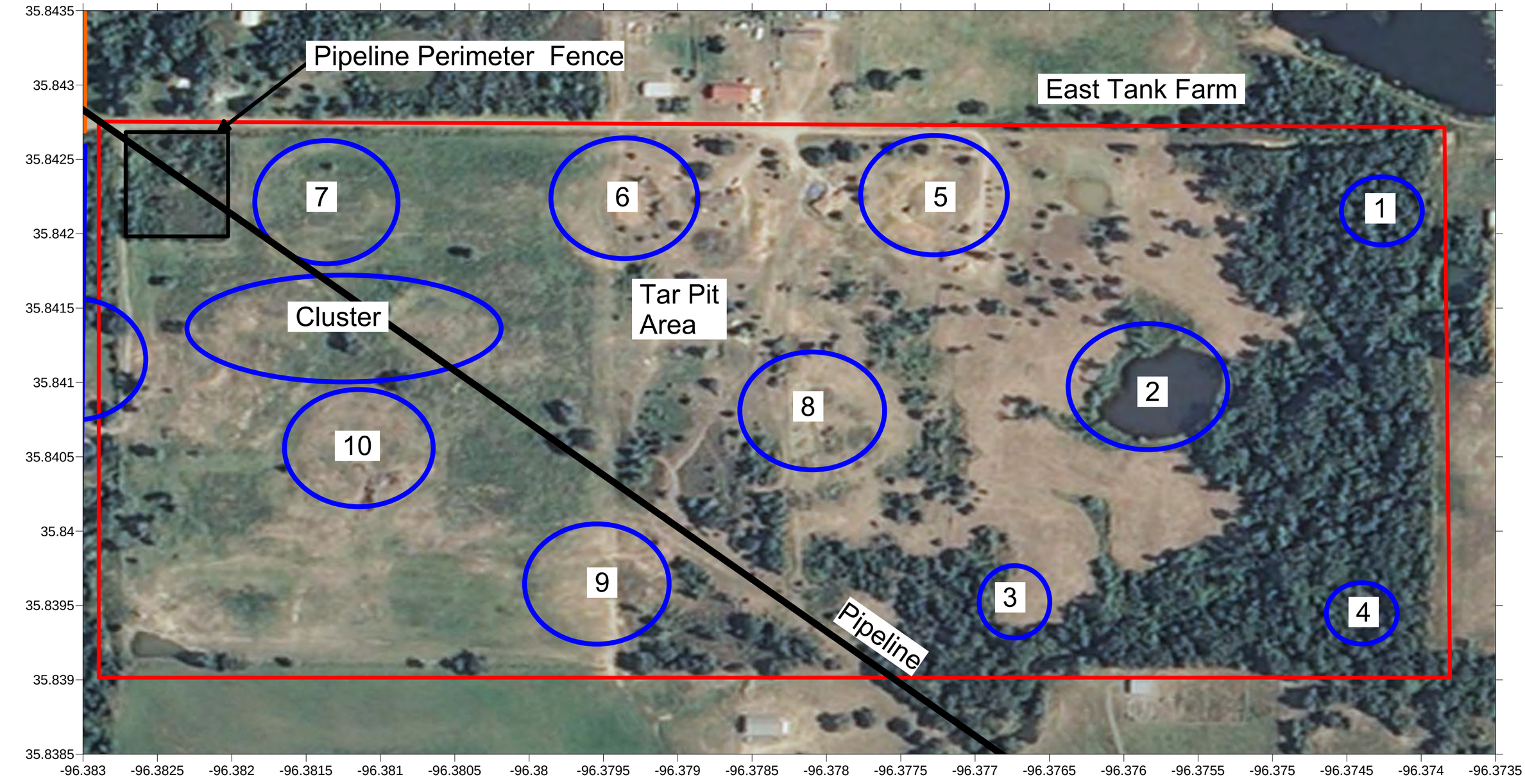


N
W E
S
015615

Figure 1
Overview of Wilcox and Lorraine Refineries Site

▲ EM31 Base Station

Coordinates are presented in Latitude/Longitude



Coordinates are presented in Latitude/Longitude

Figure 2
East Tank Farm Investigation Areas

015616

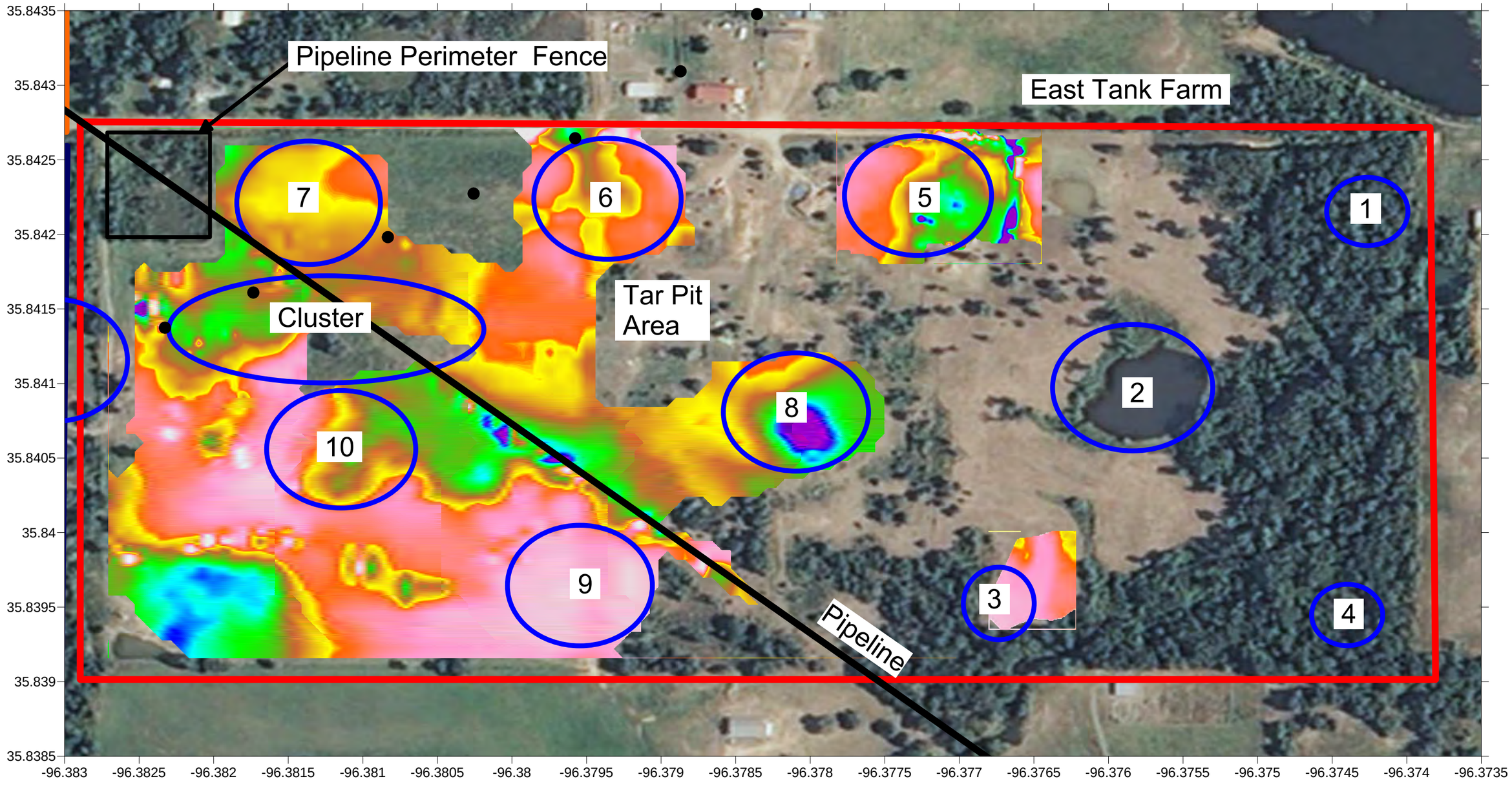


Figure 3
Overview EM31 Conductivity
East Tank Farm Investigation Areas

N
W
E
S
015617

Conductivity (mmhos/m)

0 10 20 30 40 50 60 70 80 90 100

Coordinates are presented in Latitude/Longitude

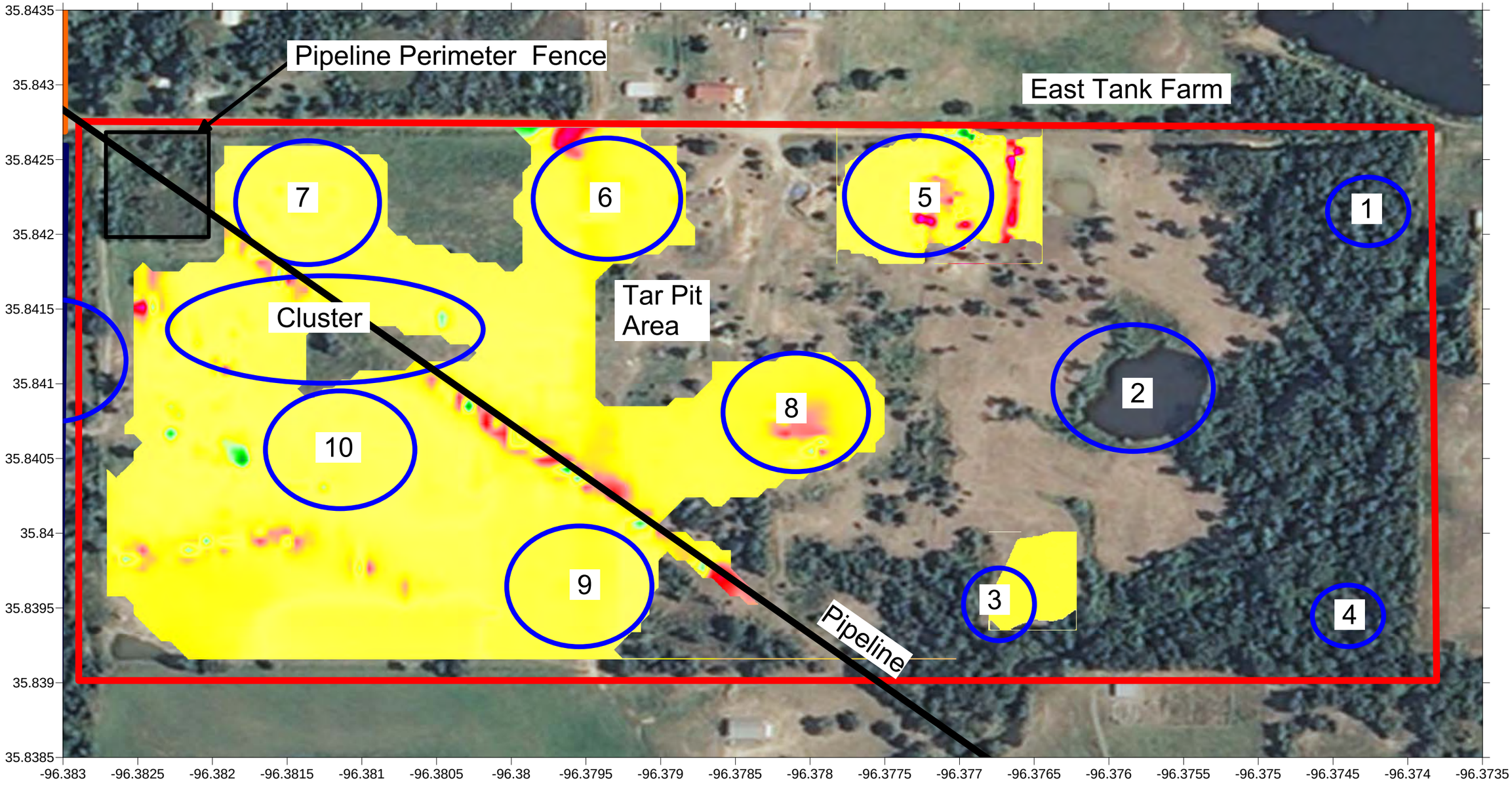
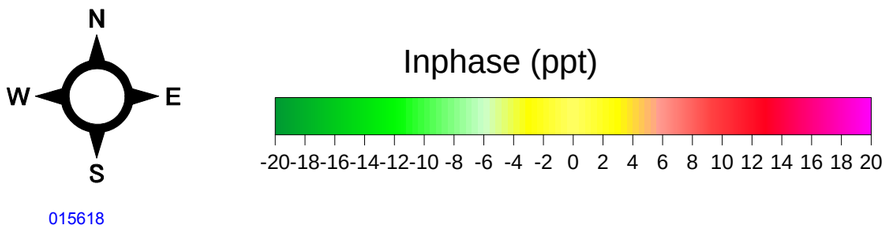


Figure 4
Overview of EM31 Inphase
East Tank Farm Investigation Areas



015618

Coordinates are presented in Latitude/Longitude

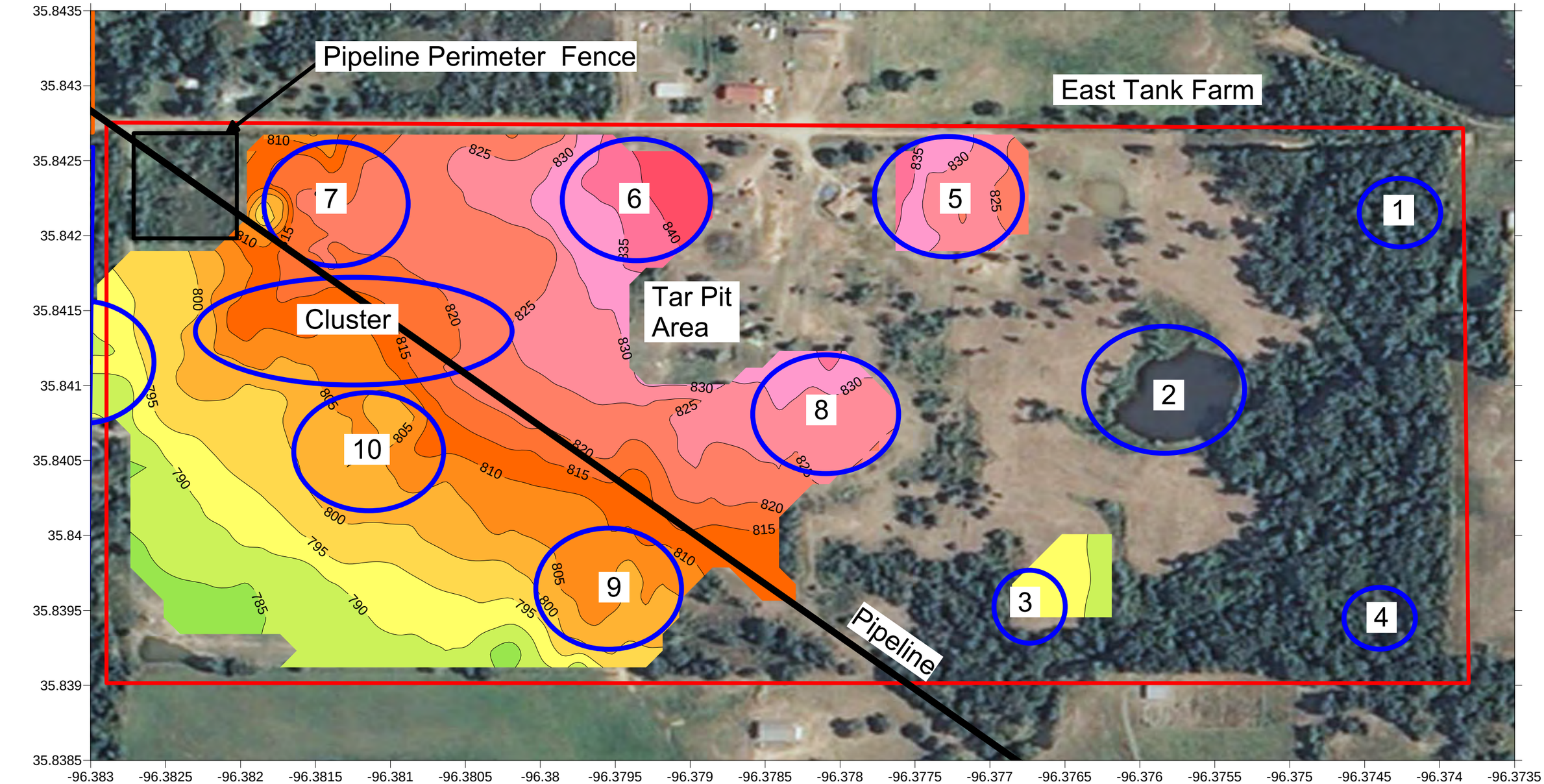


Figure 5
Bedrock Elevations
Overview of East Tank Farm

Coordinates are presented in Latitude/Longitude

Pipeline Perimeter Fence

East Tank Farm

Tar Pit Area

Cluster

Pipeline

1

2

3

4

5

6

7

8

9

10

35.8435
35.843
35.8425
35.842
35.8415
35.841
35.8405
35.84
35.8395
35.839
35.8385

-96.383 -96.3825 -96.382 -96.3815 -96.381 -96.3805 -96.38 -96.3795 -96.379 -96.3785 -96.378 -96.3775 -96.377 -96.3765 -96.376 -96.3755 -96.375 -96.3745 -96.374 -96.3735

N
W
E
S

Coordinates are presented in Latitude/Longitude

Figure 6
Soil Thickness
Overview of East Tank Farm

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

015620

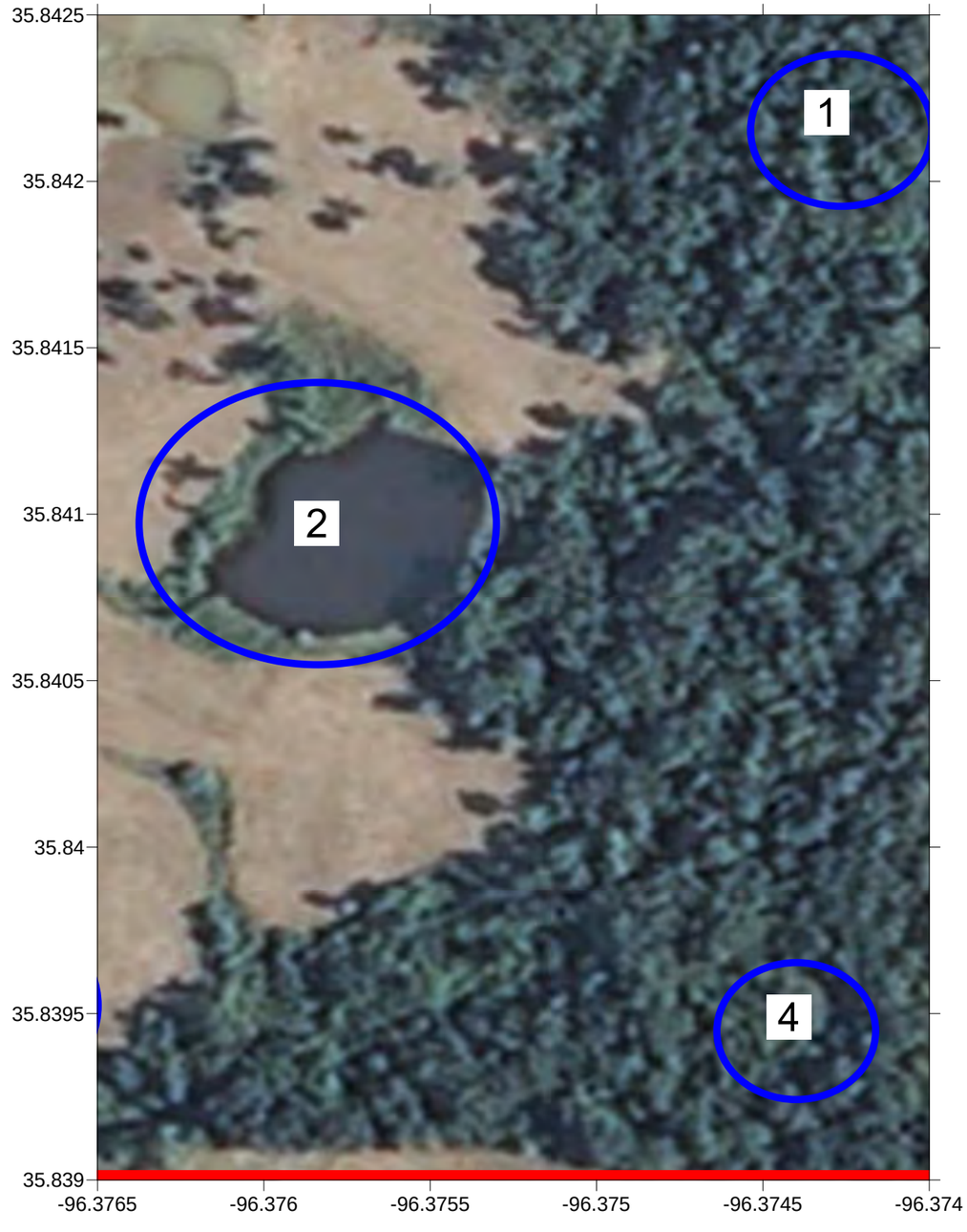
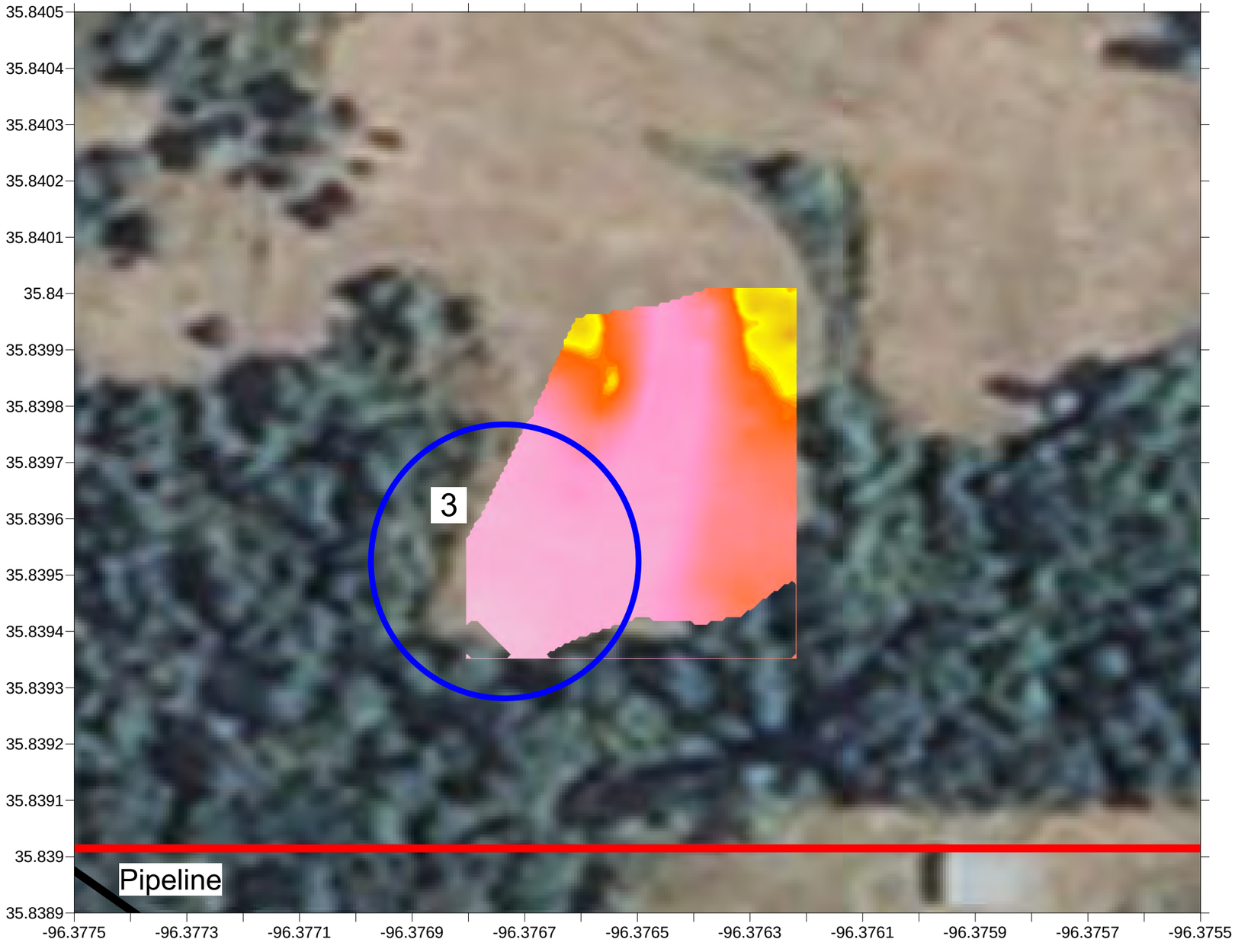


Figure 7
Investigation Areas Not Surveyed
East Tank Farm

N
W
E
S

Coordinates are presented in Latitude/Longitude

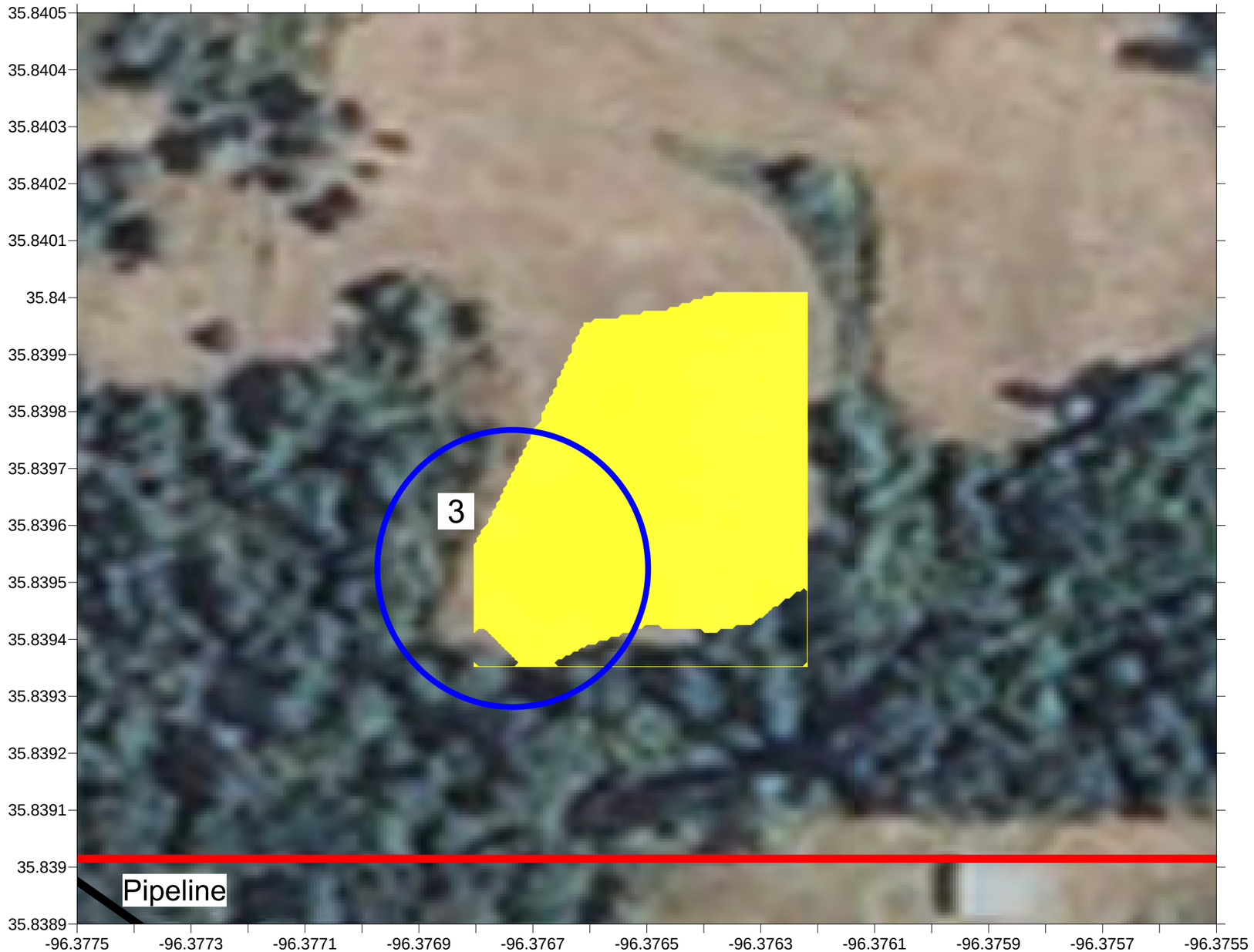
015621



015622

Figure 8
EM31 Conductivity Results
Investigation Area 3

Coordinates are presented in Latitude/Longitude

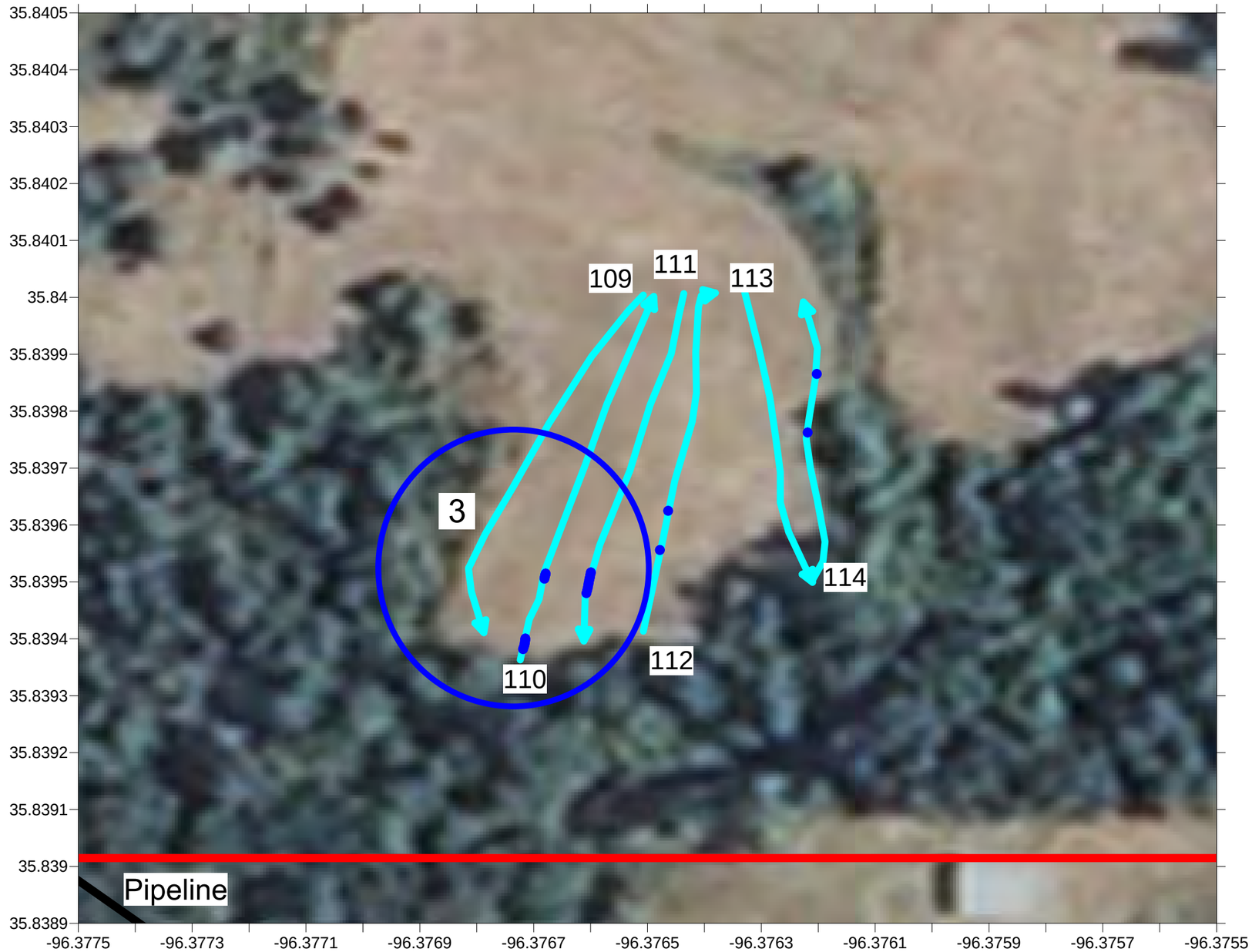


N
W E
S

015623

Figure 9
EM31 Inphase Results
Investigation Area 3

Coordinates are presented in Latitude/Longitude



N
W
E
S
015624

Figure 10
Location of GPR Traverses and Anomalies
Investigation Area 3

Coordinates are presented in Latitude/Longitude

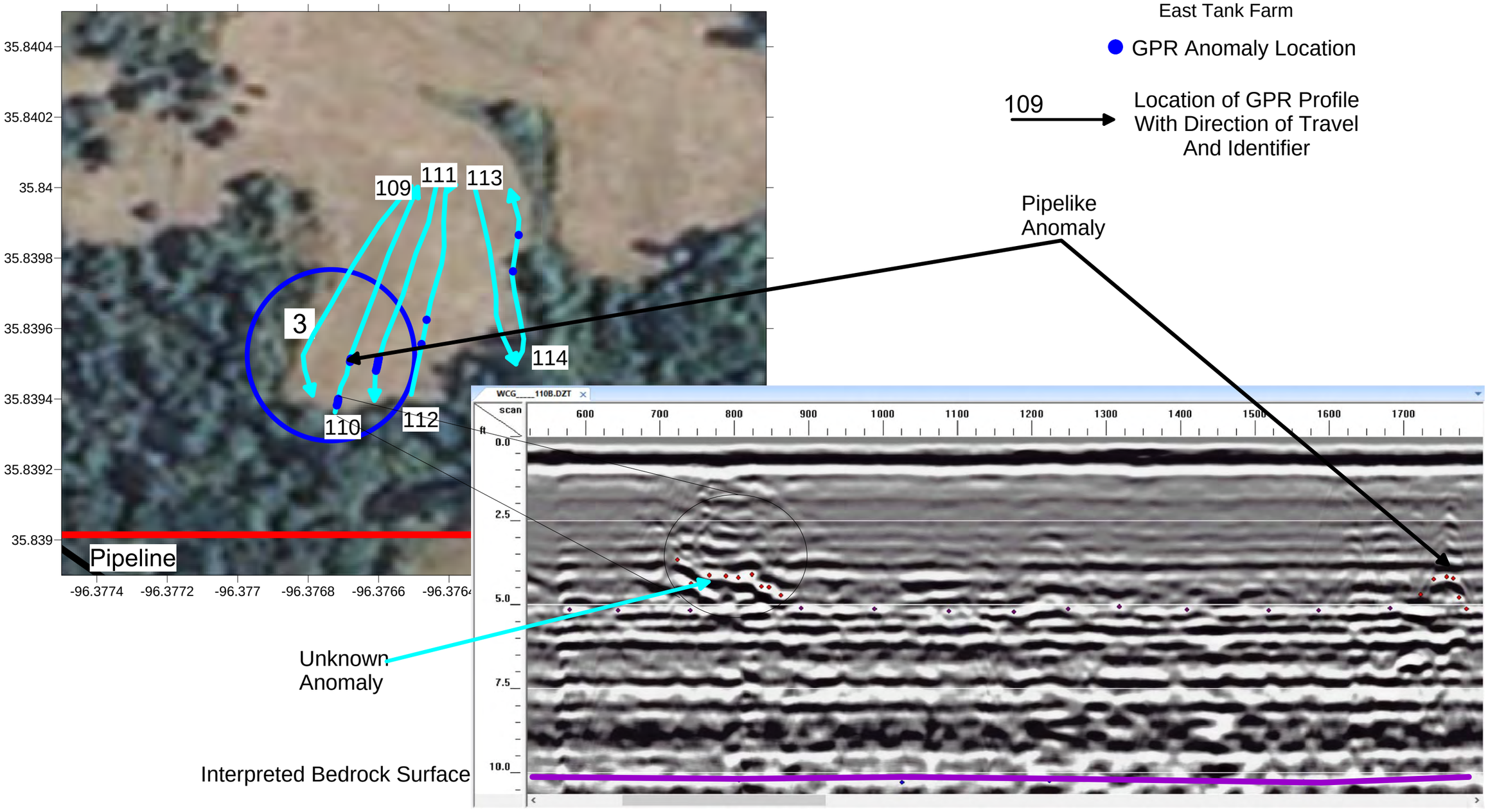
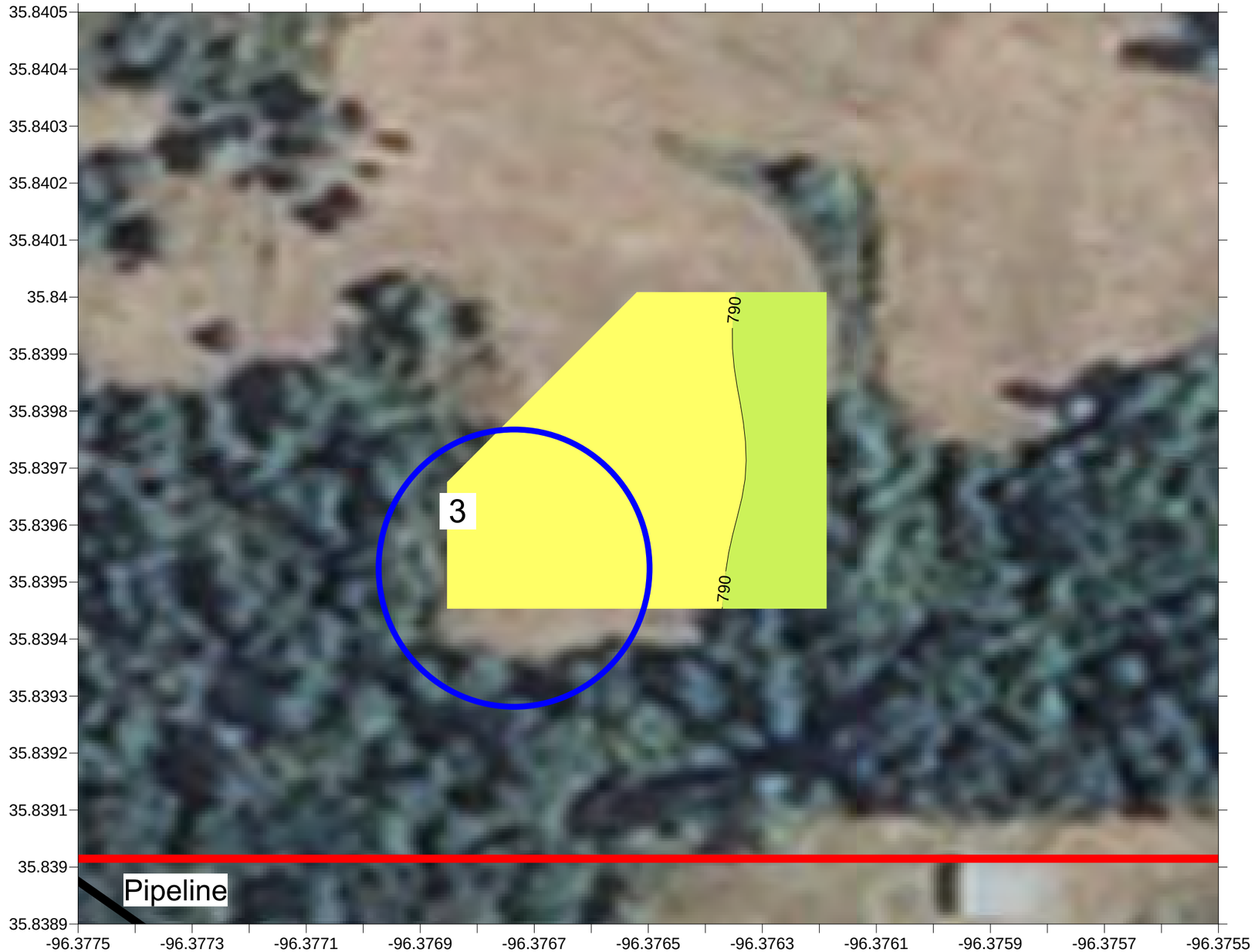


Figure 11
GPR Profiles
Investigation Area 3

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

N

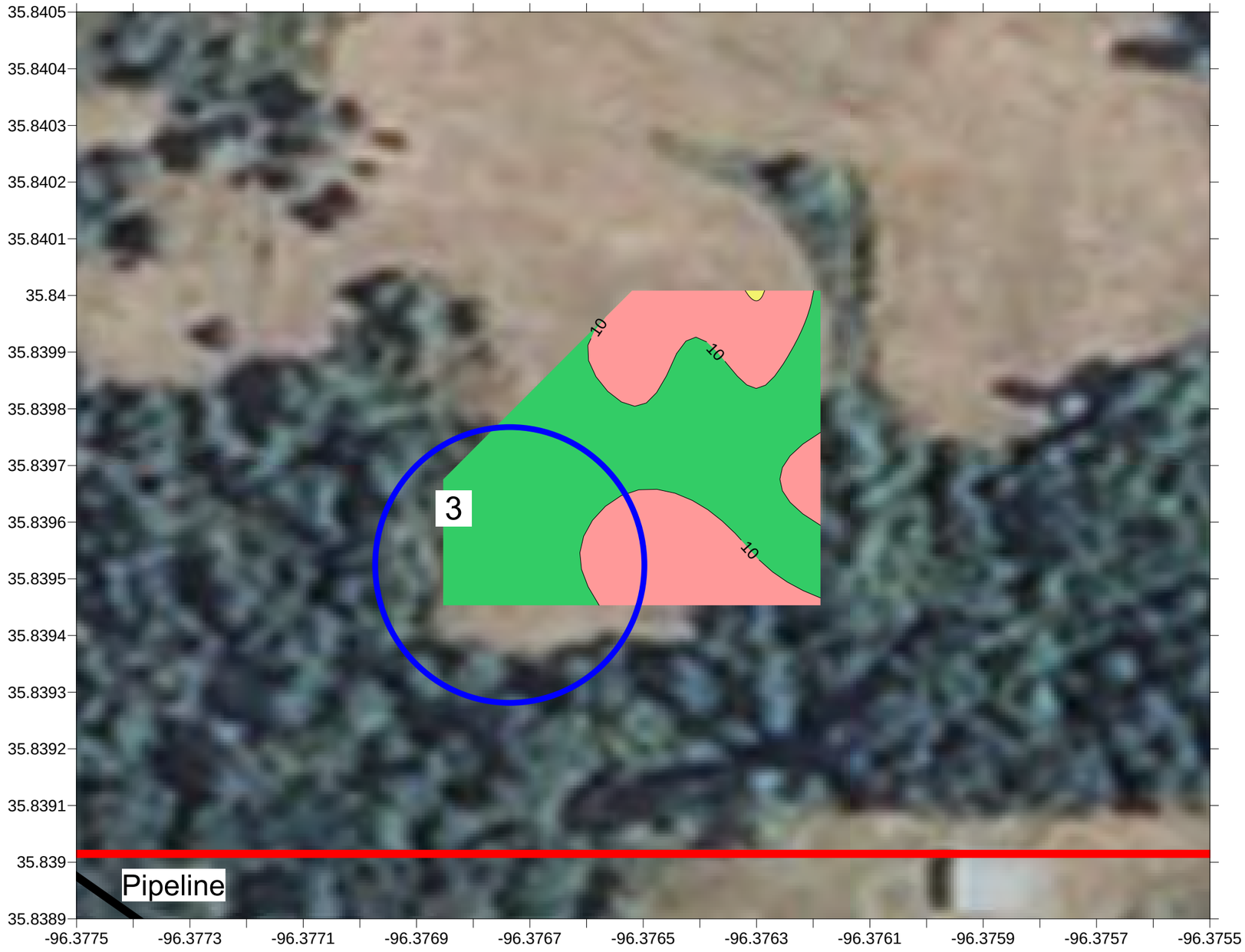
W E

S

015626

Figure 12
Bedrock Elevation
Investigation Area 3

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

N

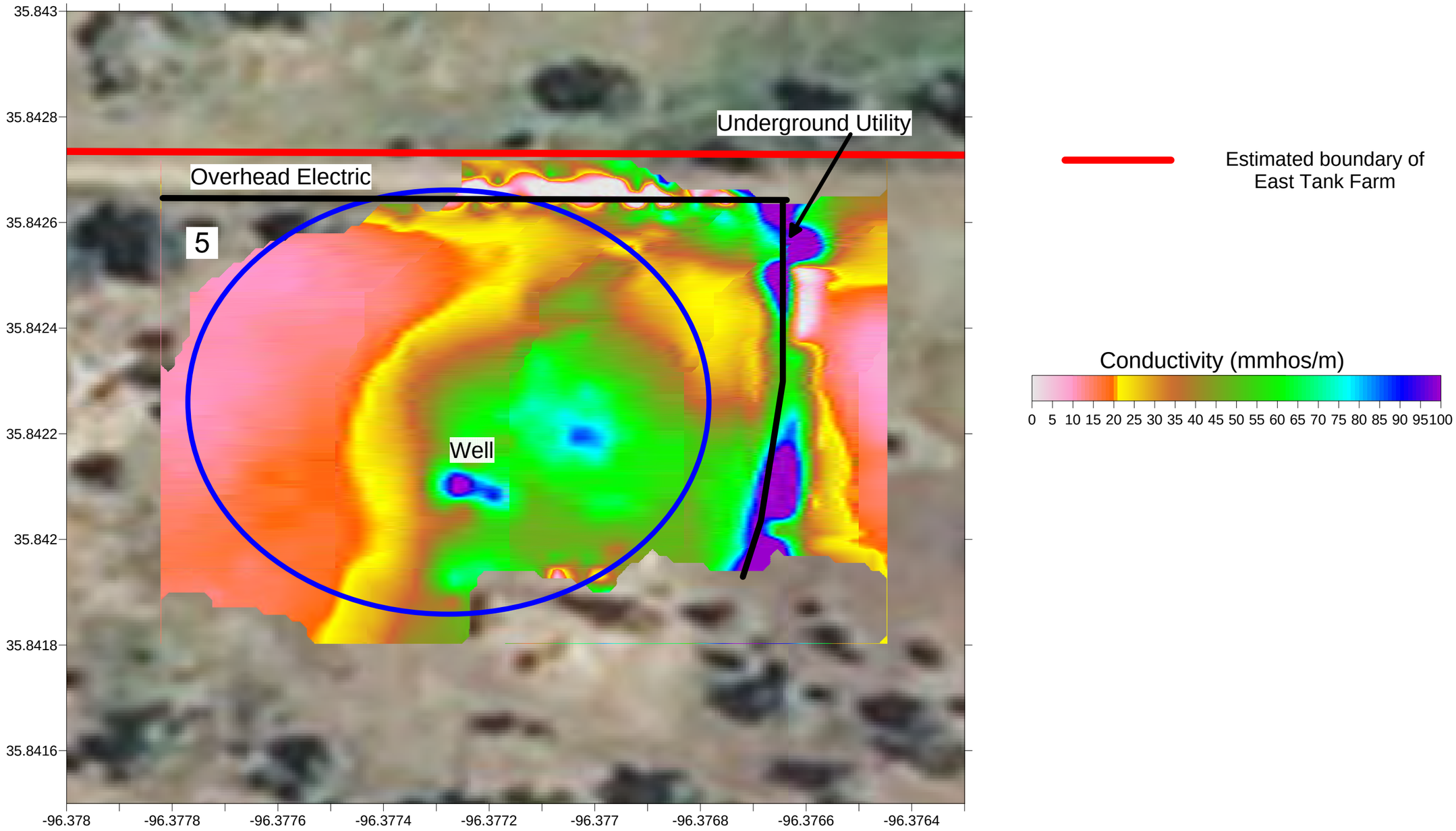
W E

S

015627

Figure 13
Soil Thickness
Investigation Area 3

Coordinates are presented in Latitude/Longitude



015628

Figure 14
EM31 Conductivity Results
Investigation Area 5

Coordinates are presented in Latitude/Longitude

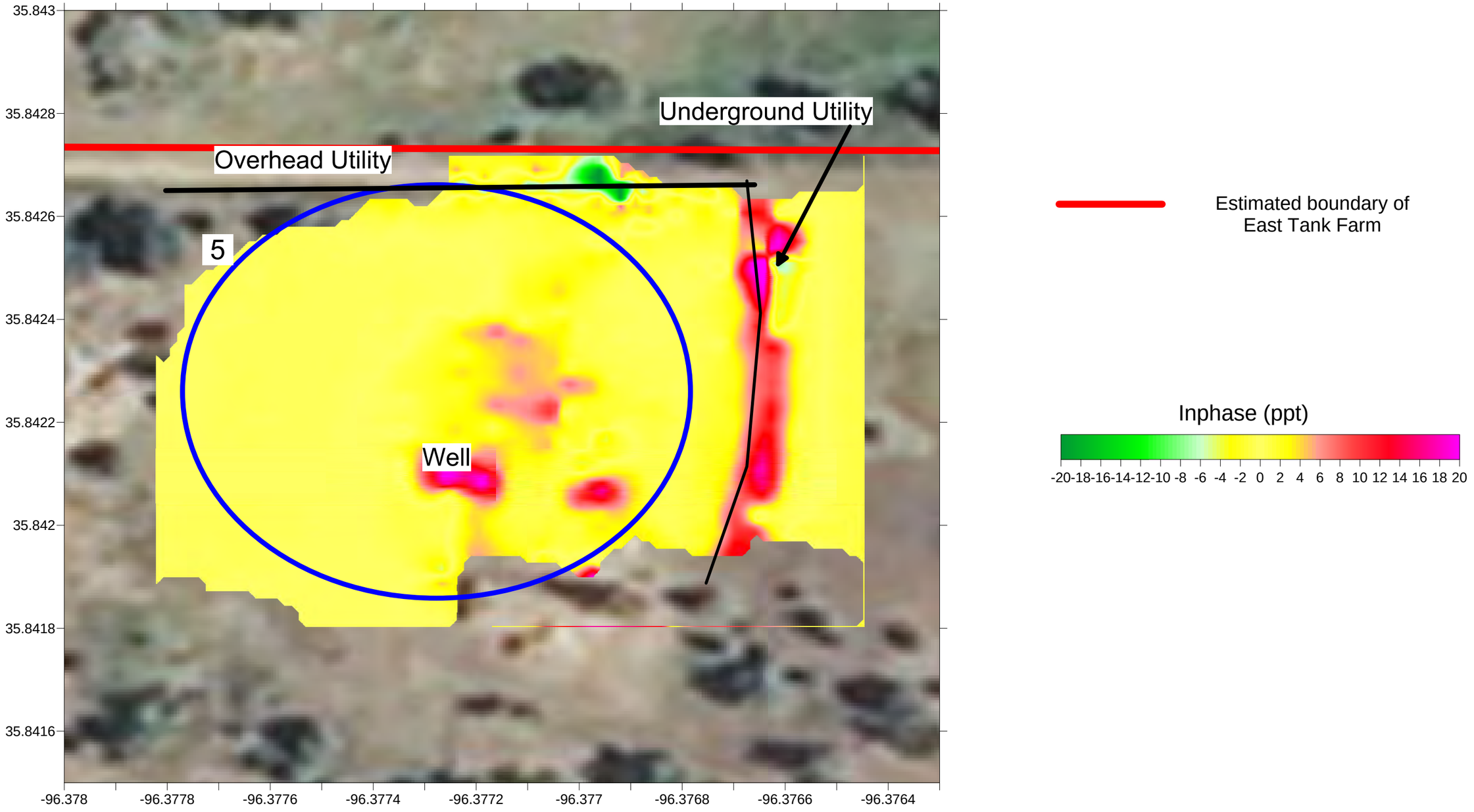
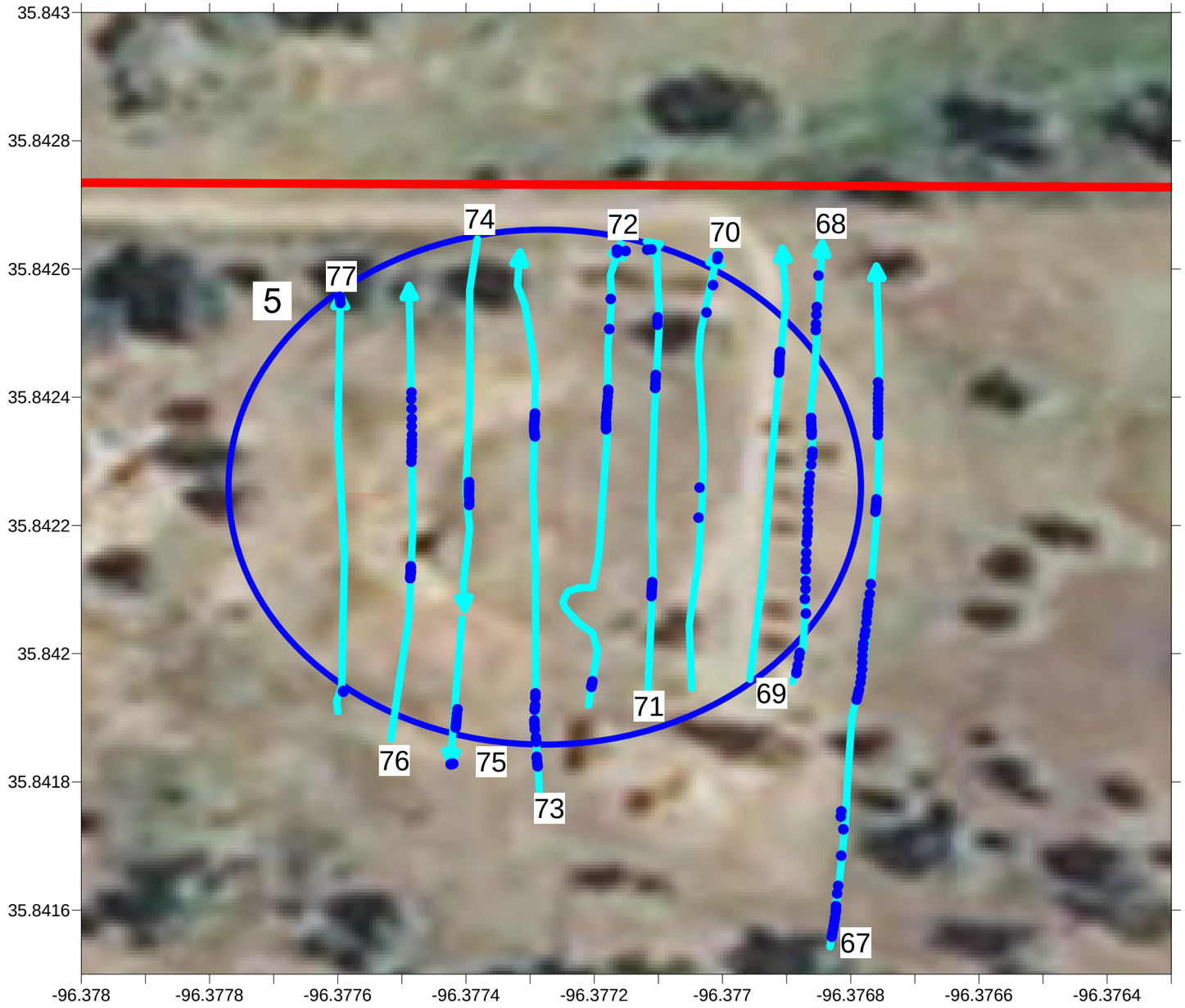


Figure 15
EM31 Inphase Results
Investigation Area 5

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

109 — Location of GPR Profile With Direction of Travel And Identifier

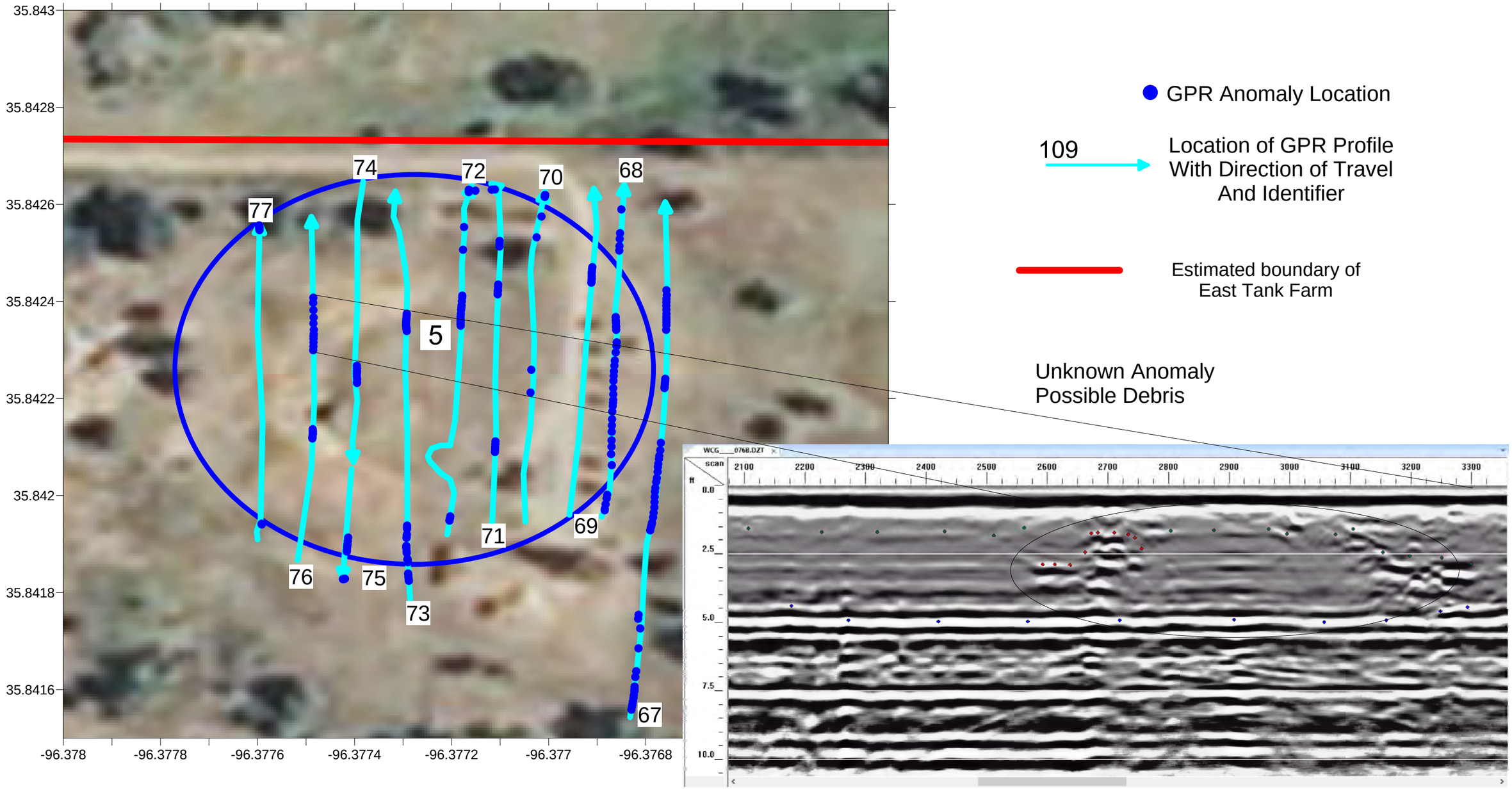
Estimated boundary of East Tank Farm

N
W E
S

015630

Figure 16
Location of GPR Profiles and Anomalies
Investigation Area 5

Coordinates are presented in Latitude/Longitude



N
W
E
S

015631

Figure 17
GPR Profiles
Investigation Area 5

Coordinates are presented in Latitude/Longitude

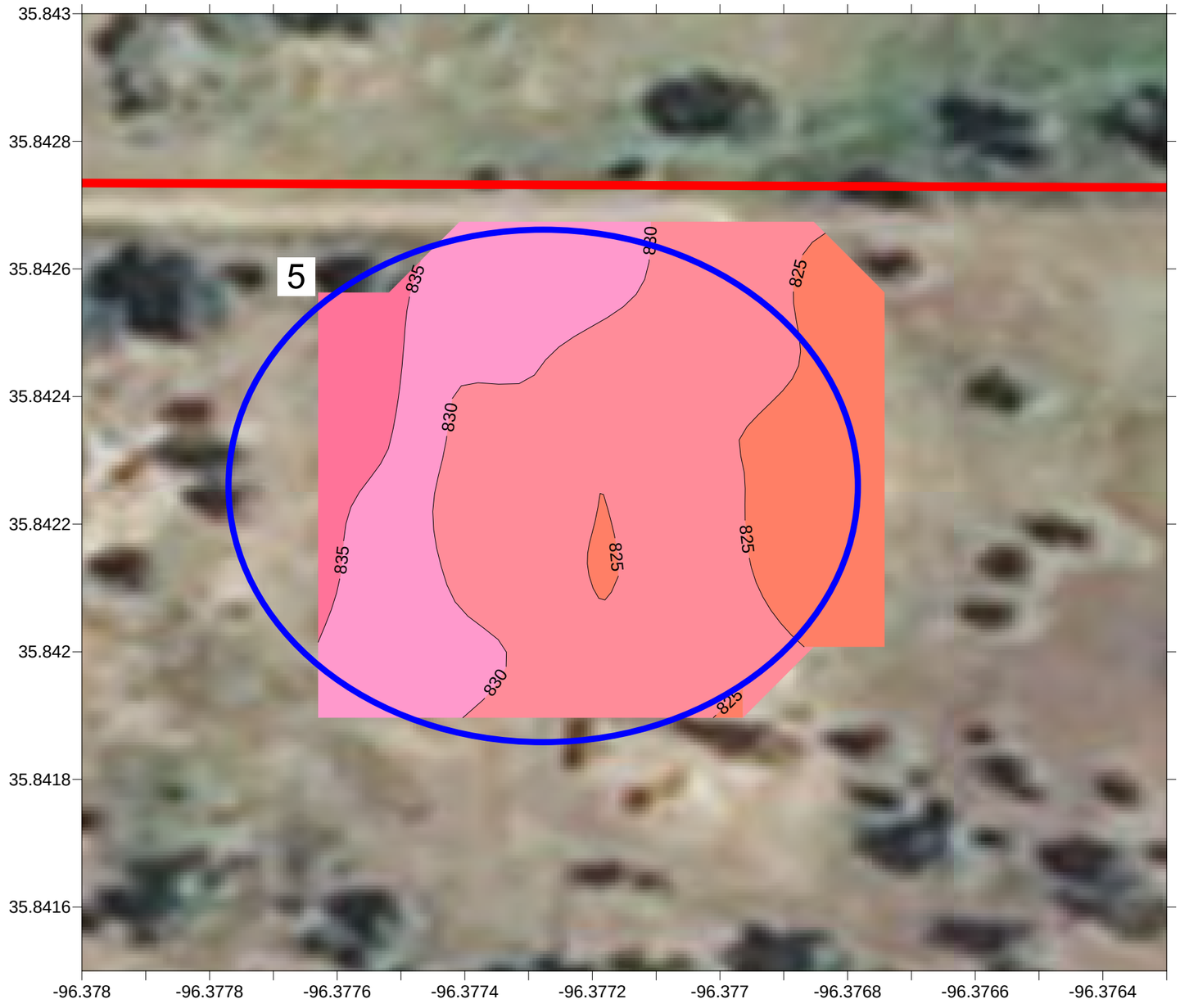
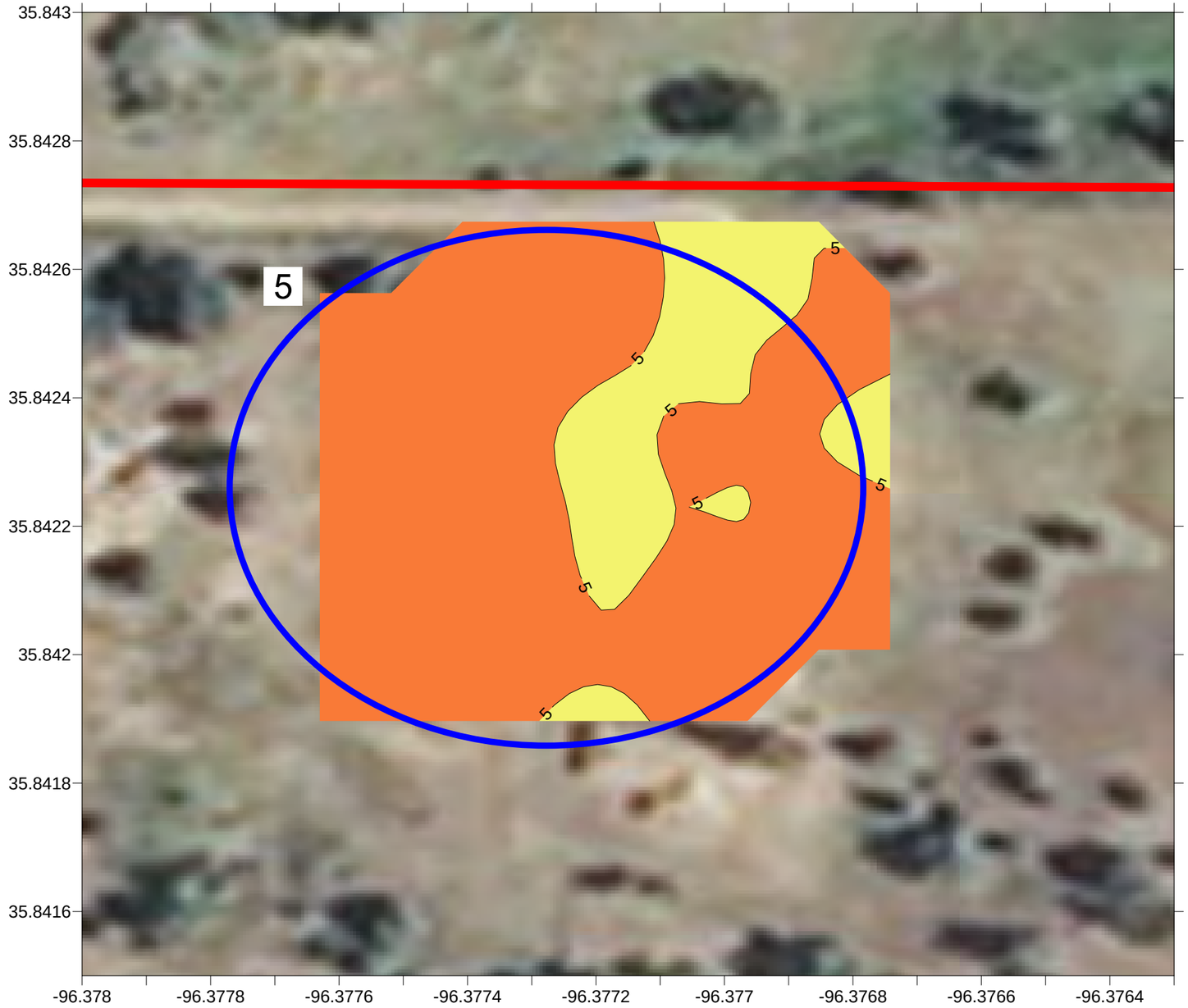


Figure 18
Bedrock Elevation
Investigation Area 5

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Soil Thickness (Feet)

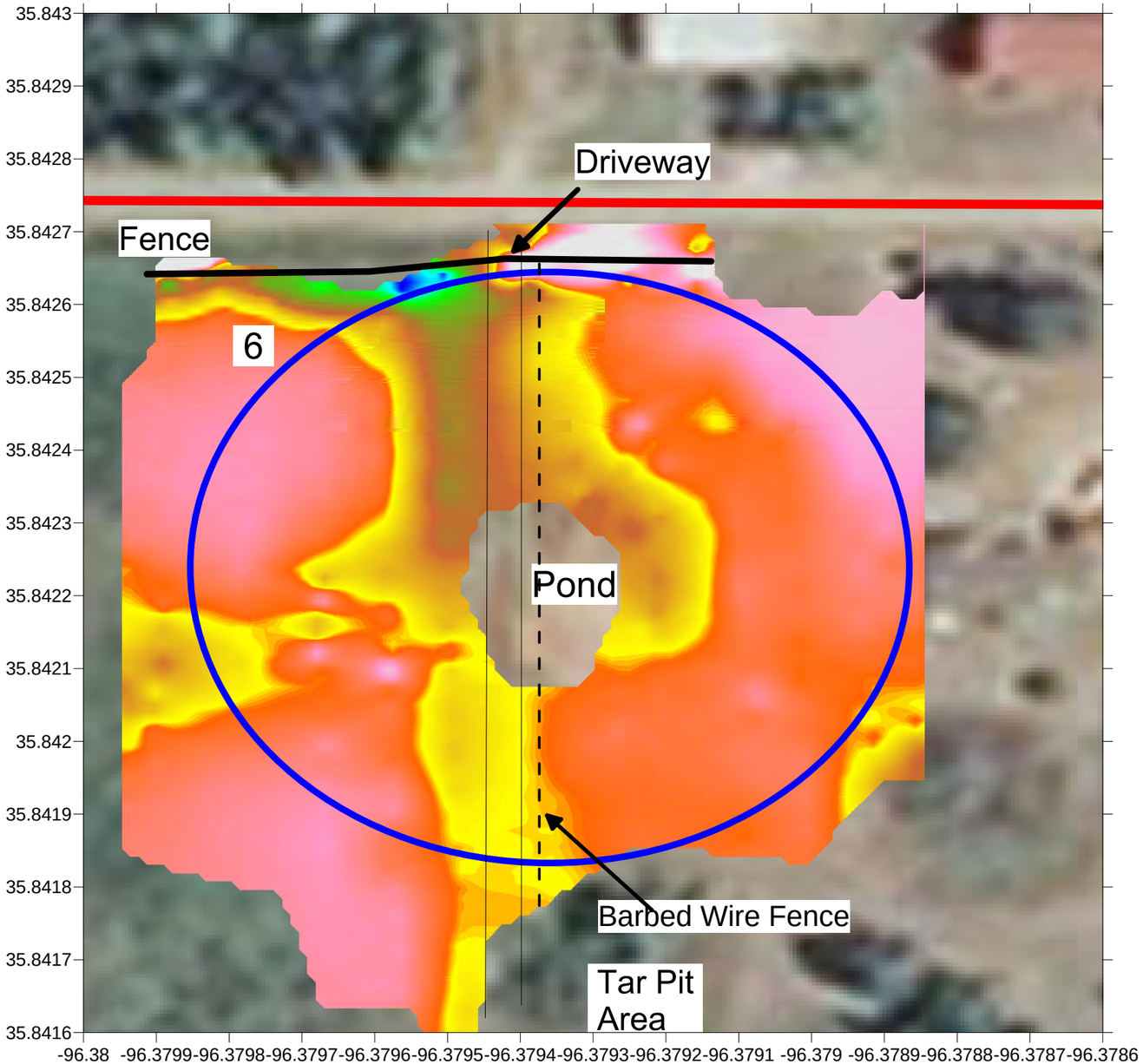
0 2.5 5 7.5 10 15 20

N
W E
S

015633

Figure 19
Soil Thickness
Investigation Area 5

Coordinates are presented in Latitude/Longitude



Estimated boundary of
East Tank Farm

Conductivity (mmhos/m)

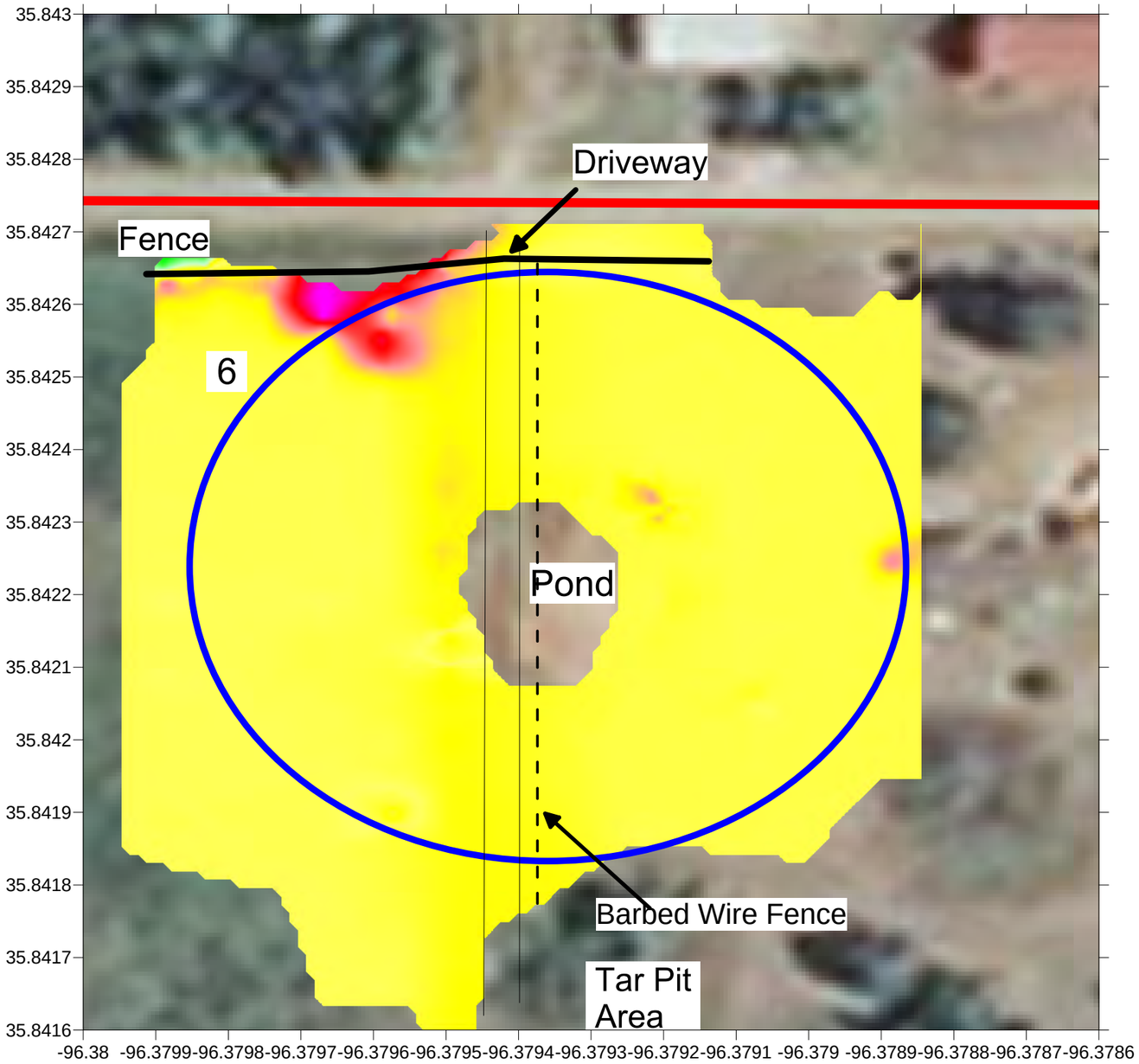
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

N
W
E
S

015634

Figure 20
EM31 Conductivity Results
Investigation Area 6

Coordinates are presented in Latitude/Longitude



Estimated boundary of
East Tank Farm

Inphase (ppt)

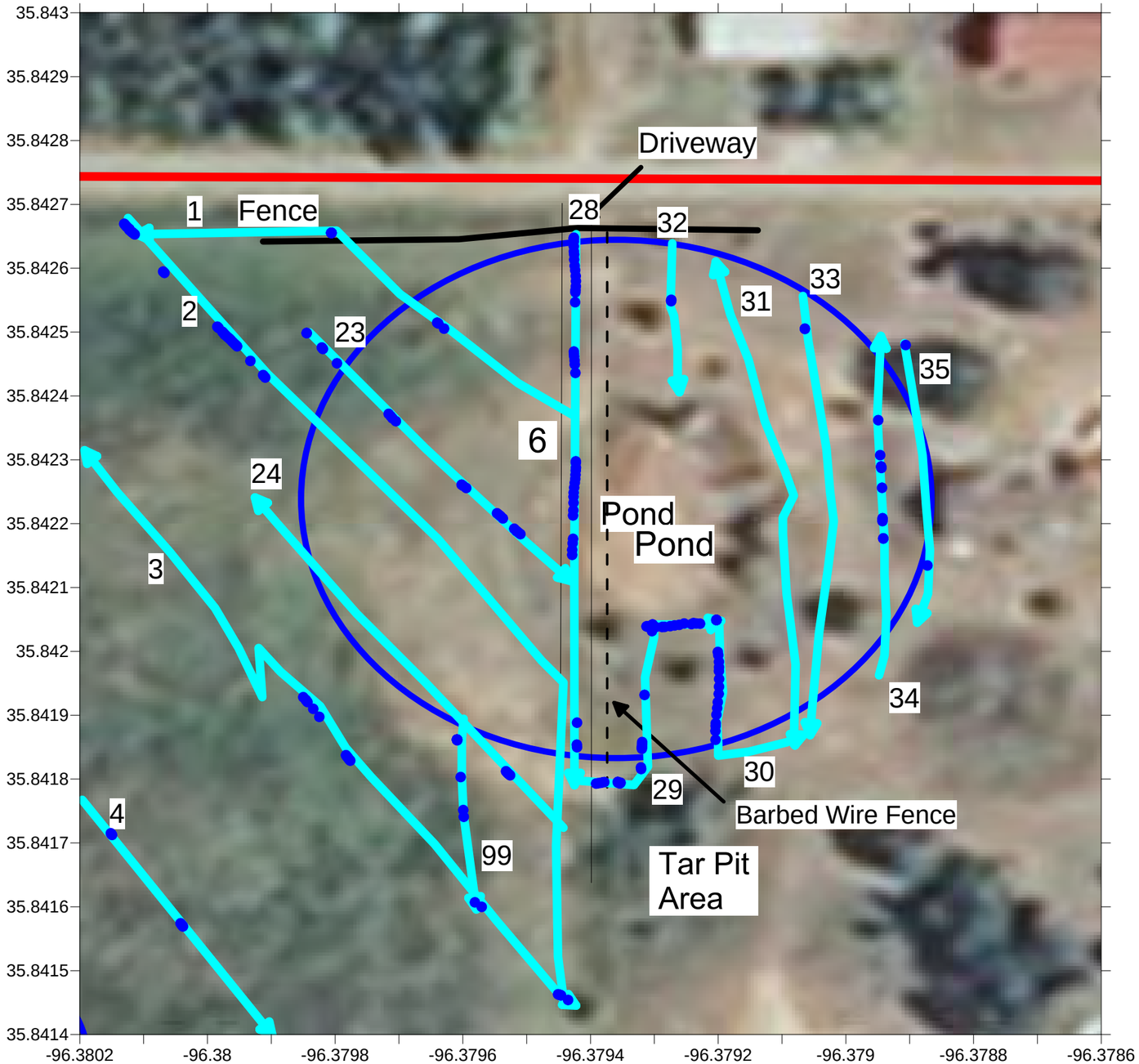
-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

N
W
E
S

015635

Figure 21
EM31 Inphase Results
Investigation Area 6

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

35 → Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of East Tank Farm

N
W E
S

015636

Figure 22
Locations of GPR Traverses and Anomalies
Investigation Area 6

Coordinates are presented in Latitude/Longitude

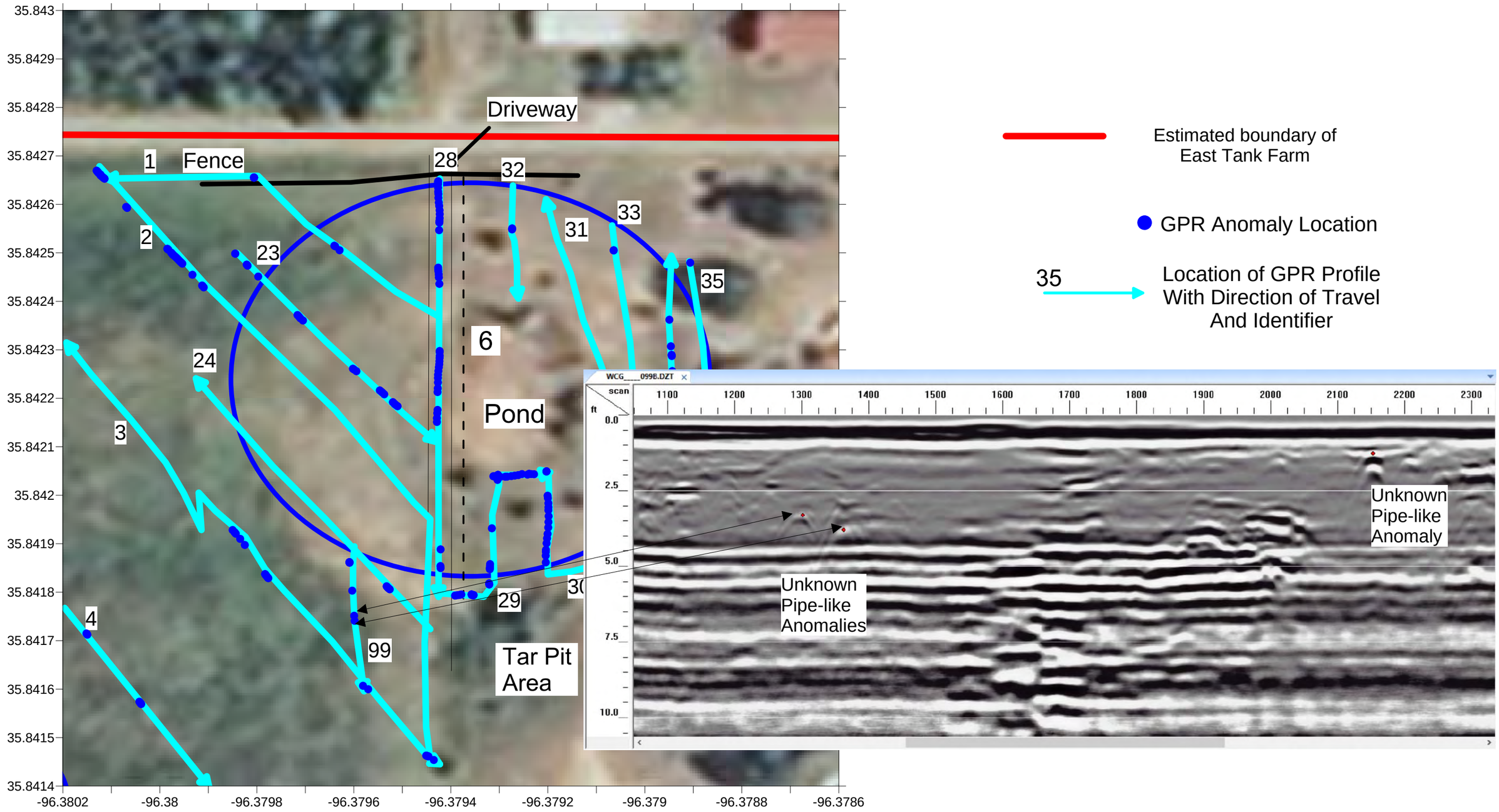
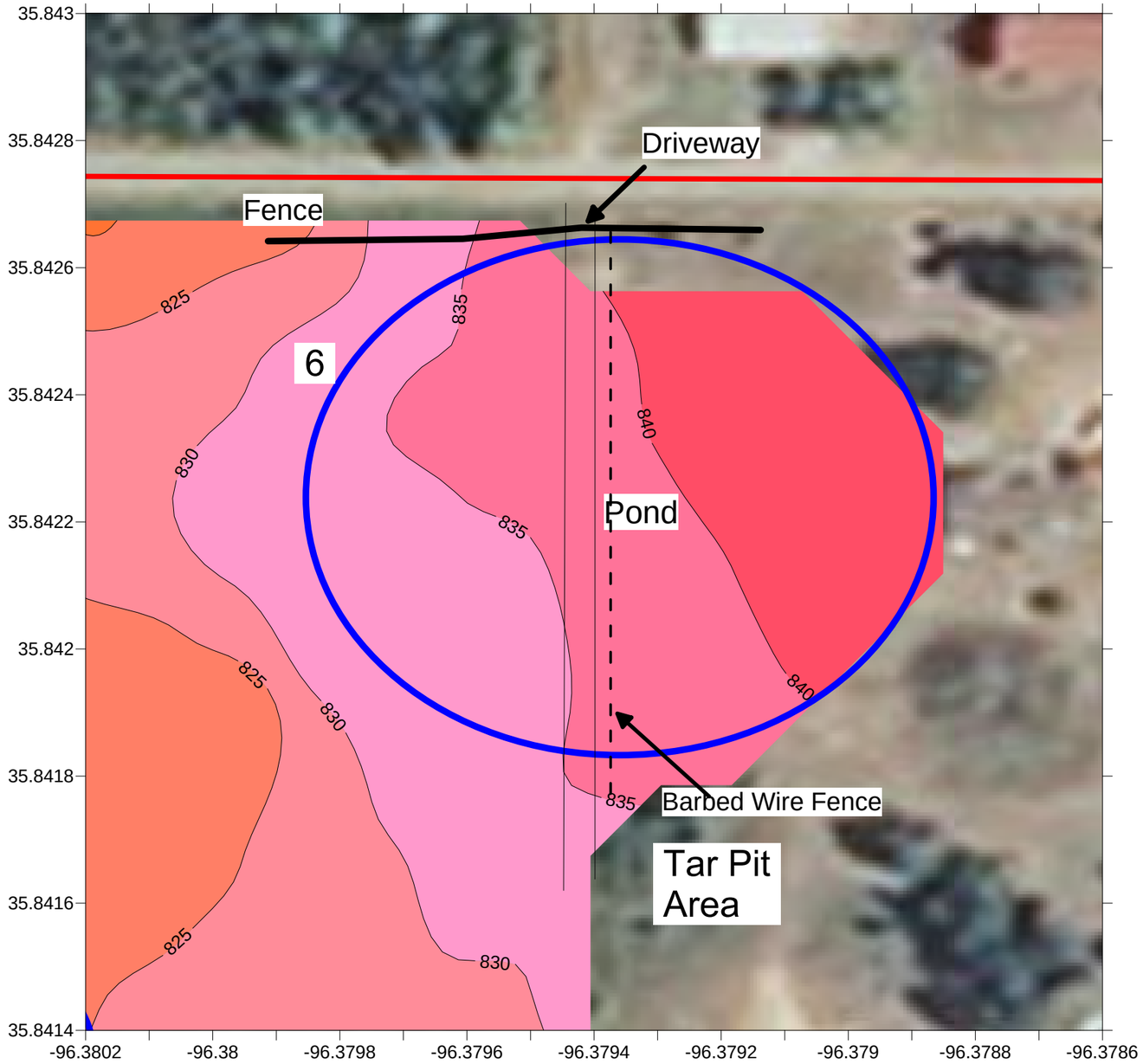


Figure 23
GPR Profiles
Investigation Area 6

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Bedrock Elevation (Feet AMSL)

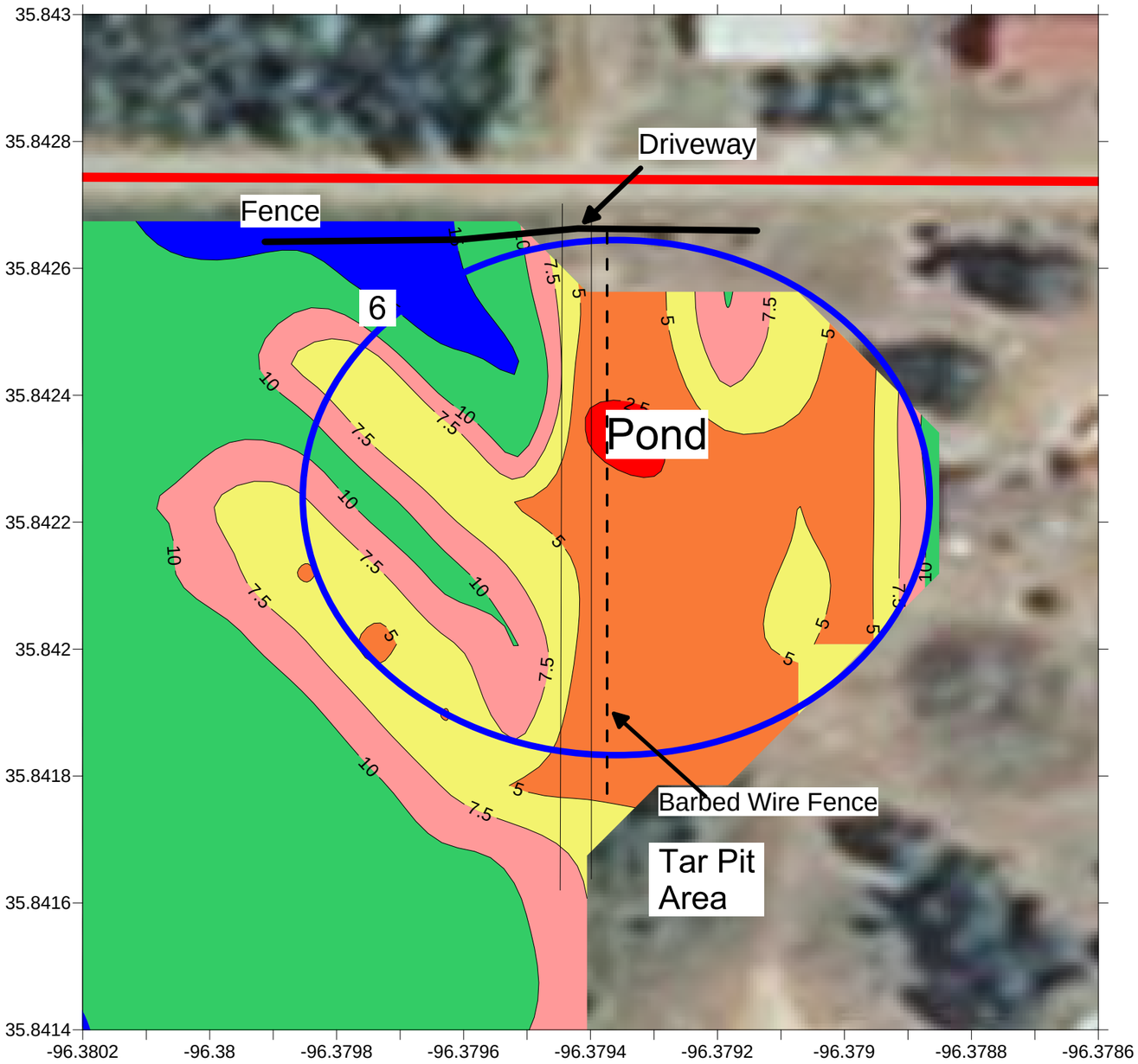
750 760 770 780 790 800 810 820 830 840 850

N
W
E
S

015638

Figure 24
Bedrock Elevation
Investigation Area 6

Coordinates are presented in Latitude/Longitude



Estimated boundary of
East Tank Farm

Soil Thickness (Feet)

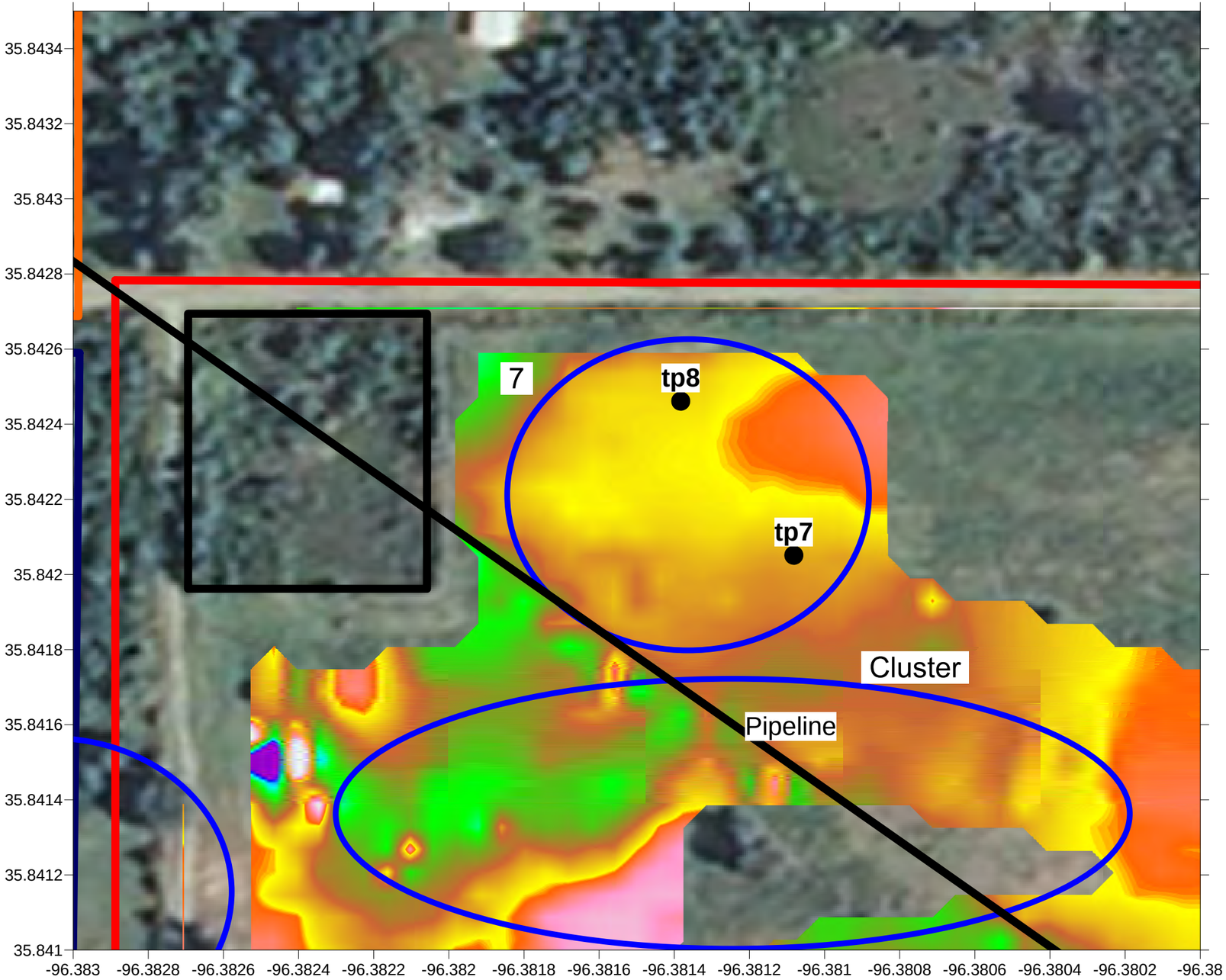
0 2.5 5 7.5 10 15 20

N
W E
S

015639

Figure 25
Soil Thickness
Investigation Area 6

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Estimated boundary of Wilcox Process Area

Estimated boundary of Loading Dock Area

● Test Pit Location with Identifier

TP7
Bedrock depth greater than 5.5 feet

TP8
Bedrock depth greater than 7.4 feet

Conductivity (mmhos/m)

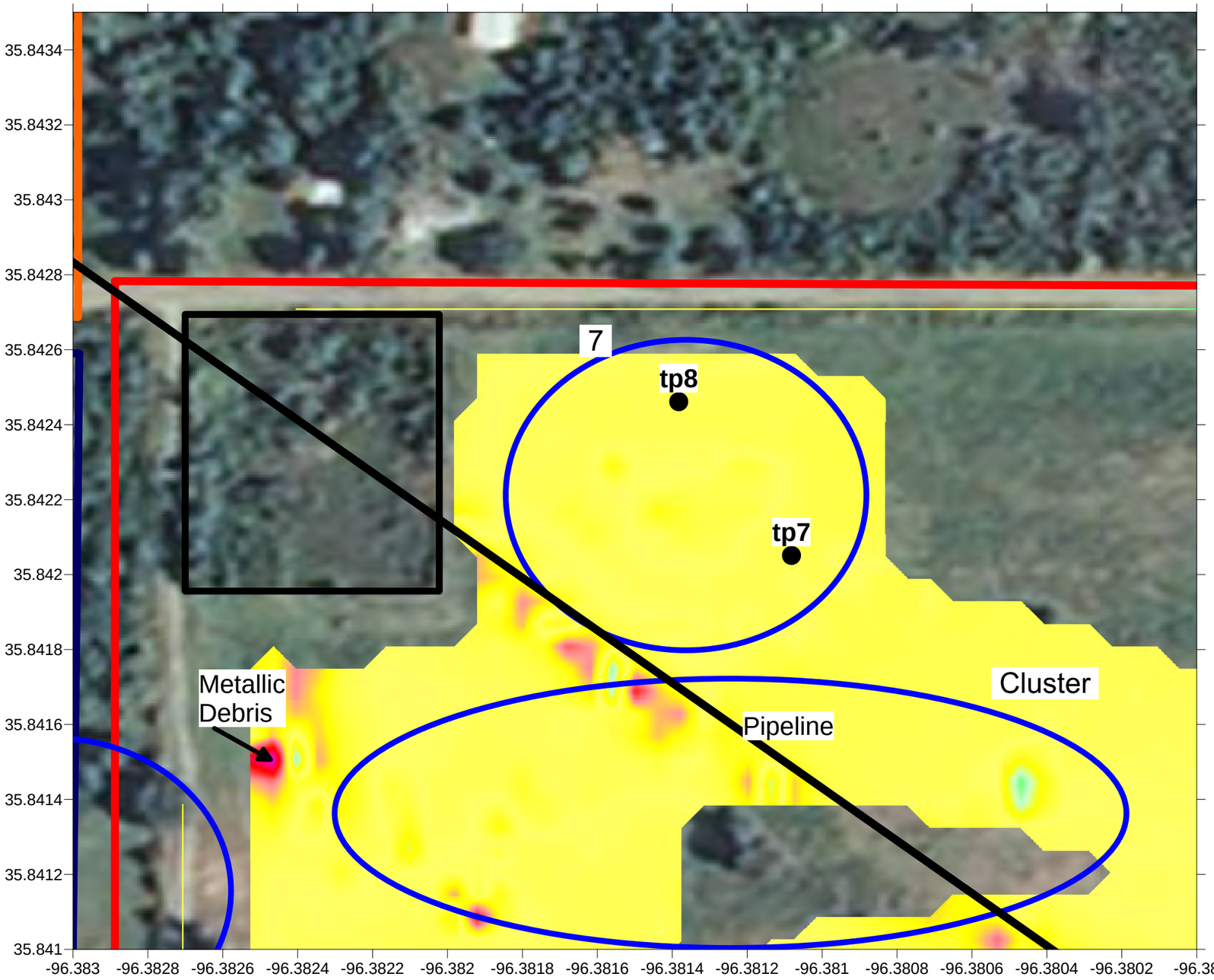
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

N
W E
S

015640

Figure 26
EM31 Conductivity Results
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



● Test Pit Location with Identifier

TP7
Bedrock depth greater than 5.5 feet

TP8
Bedrock depth greater than 7.4 feet

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of Loading Dock Area

Inphase (ppt)

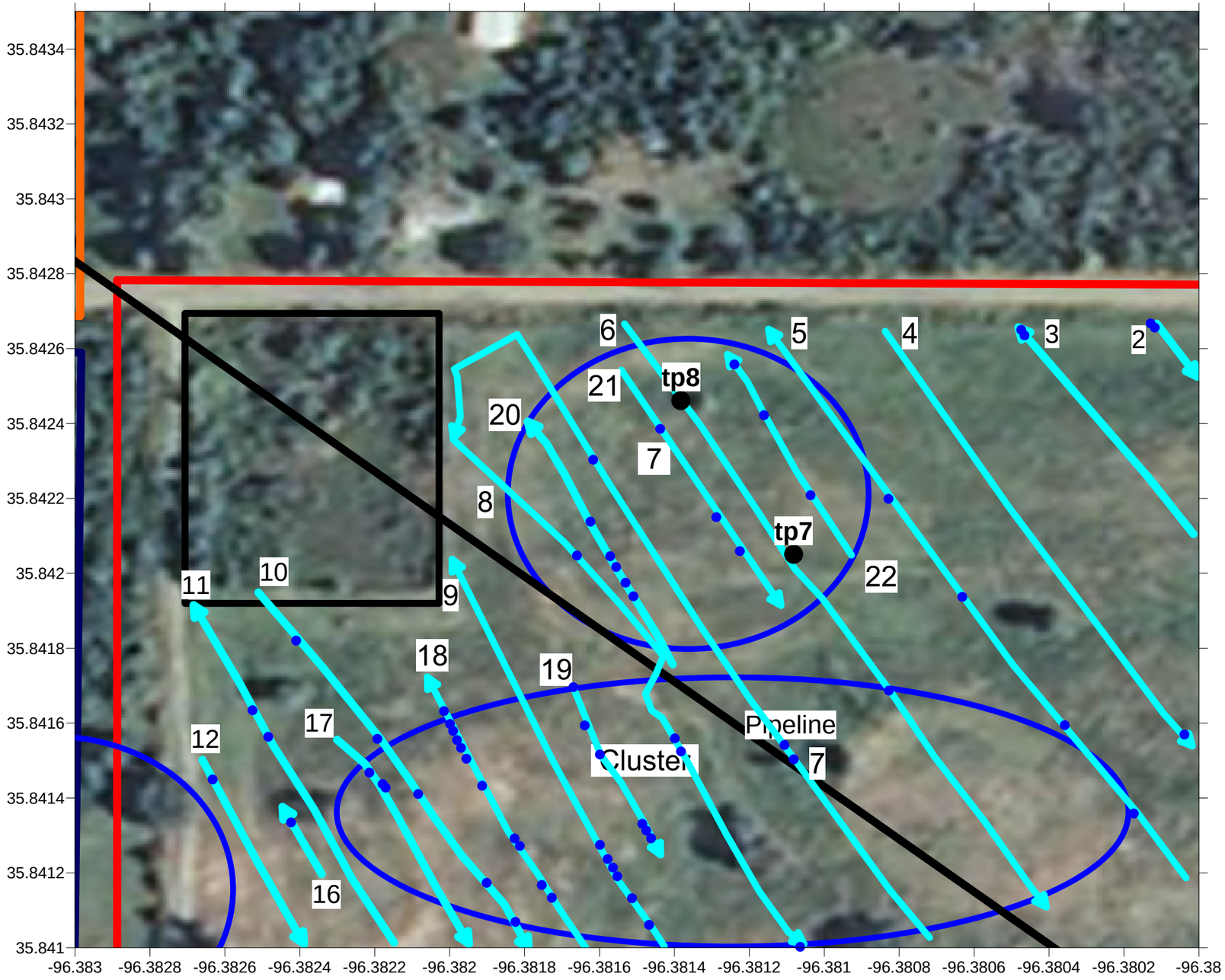
-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

N
W
E
S

015641

Figure 27
EM31 Inphase Results
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

6 → Location of GPR Profile With Direction of Travel And Identifier

Test Pit Location with Identifier

TP7
Bedrock depth greater than 5.5 feet

TP8
Bedrock depth greater than 7.4 feet

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

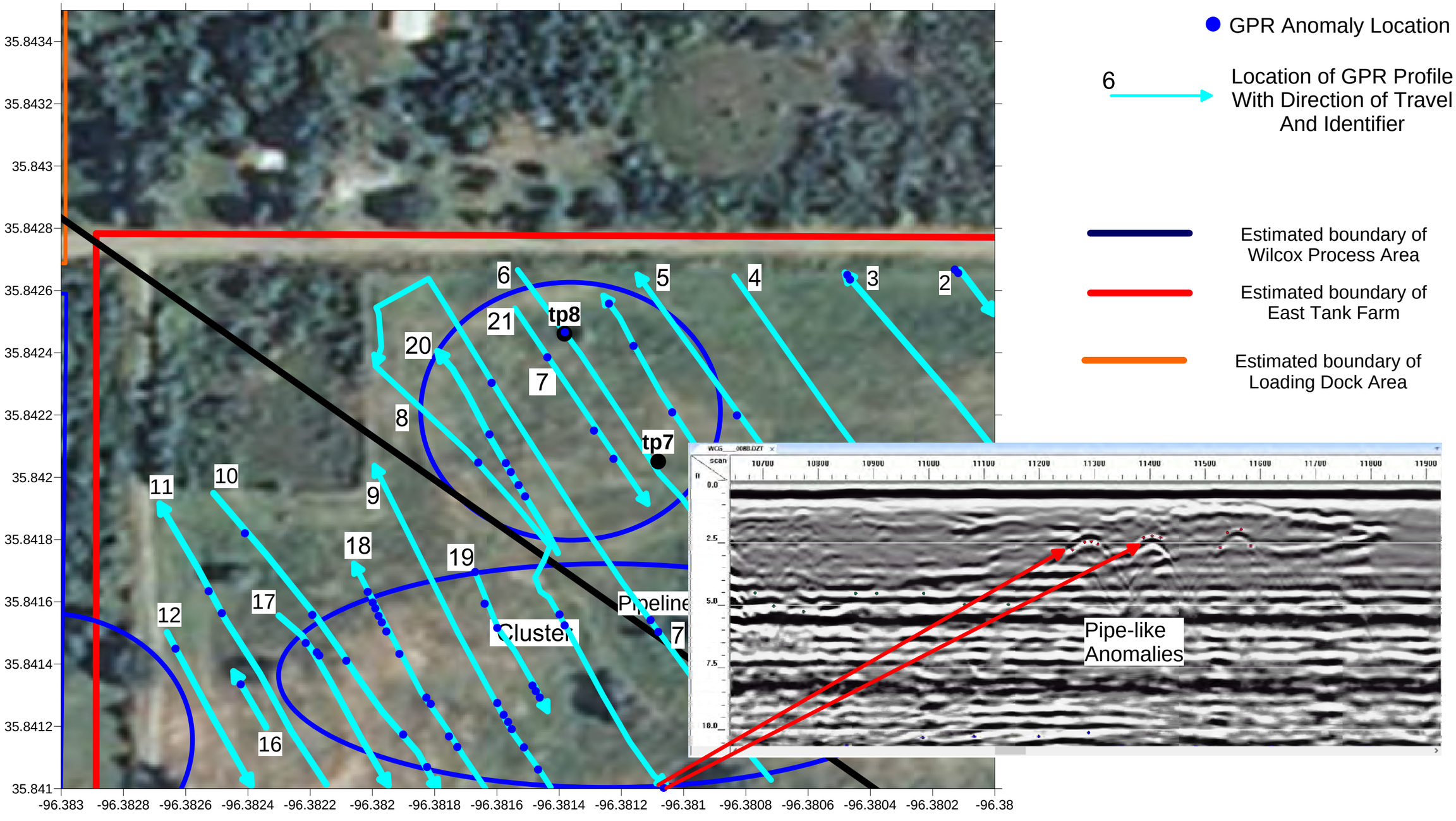
Estimated boundary of Loading Dock Area

N
W
E
S

015642

Figure 28
Location of GPR Traverses and Anomalies
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

6 Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

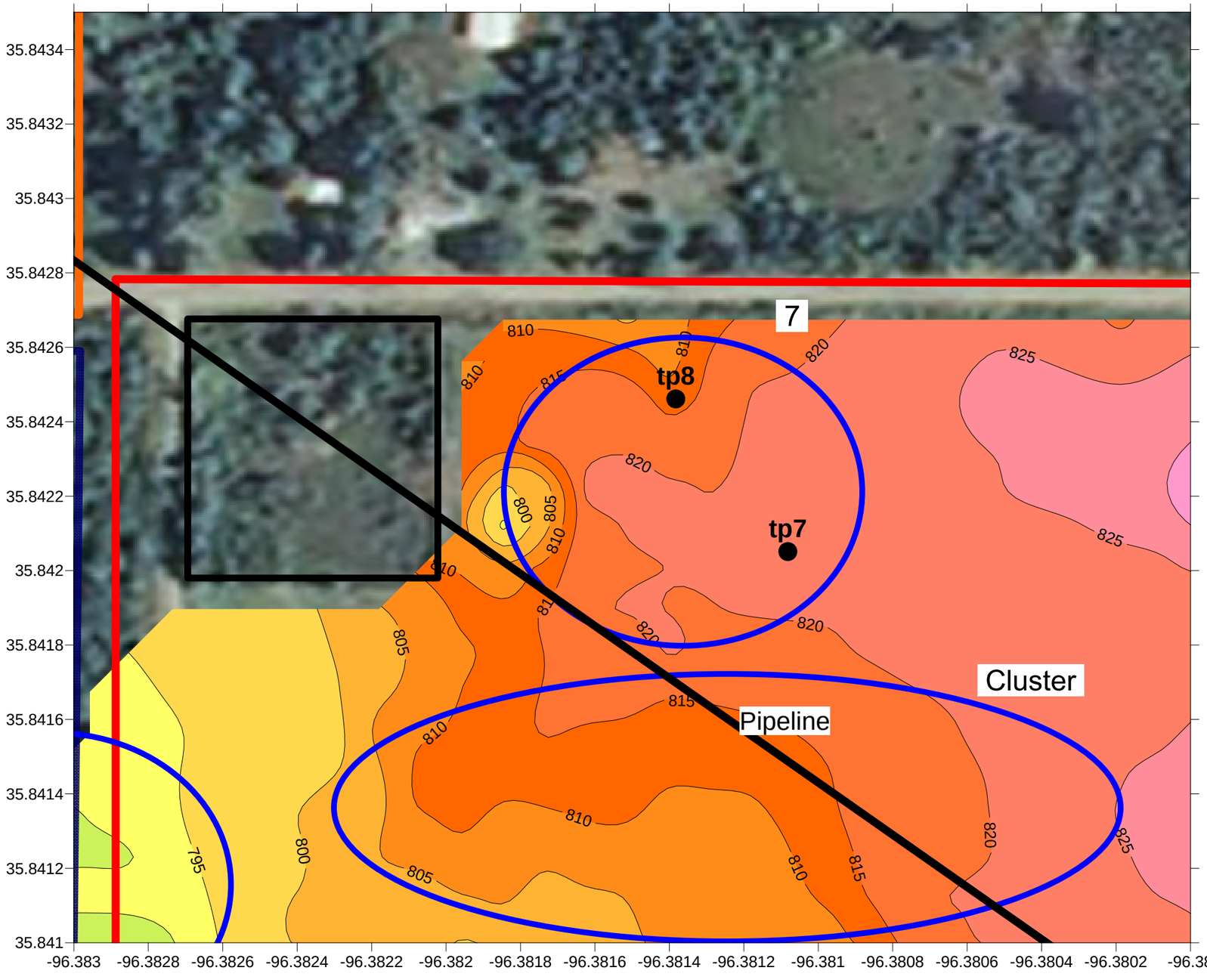
Estimated boundary of Loading Dock Area

N
W E
S

015643

Figure 29
GPR Profiles
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of Loading Dock Area

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

● Test Pit Location with Identifier

TP7
Bedrock depth greater than 5.5 feet

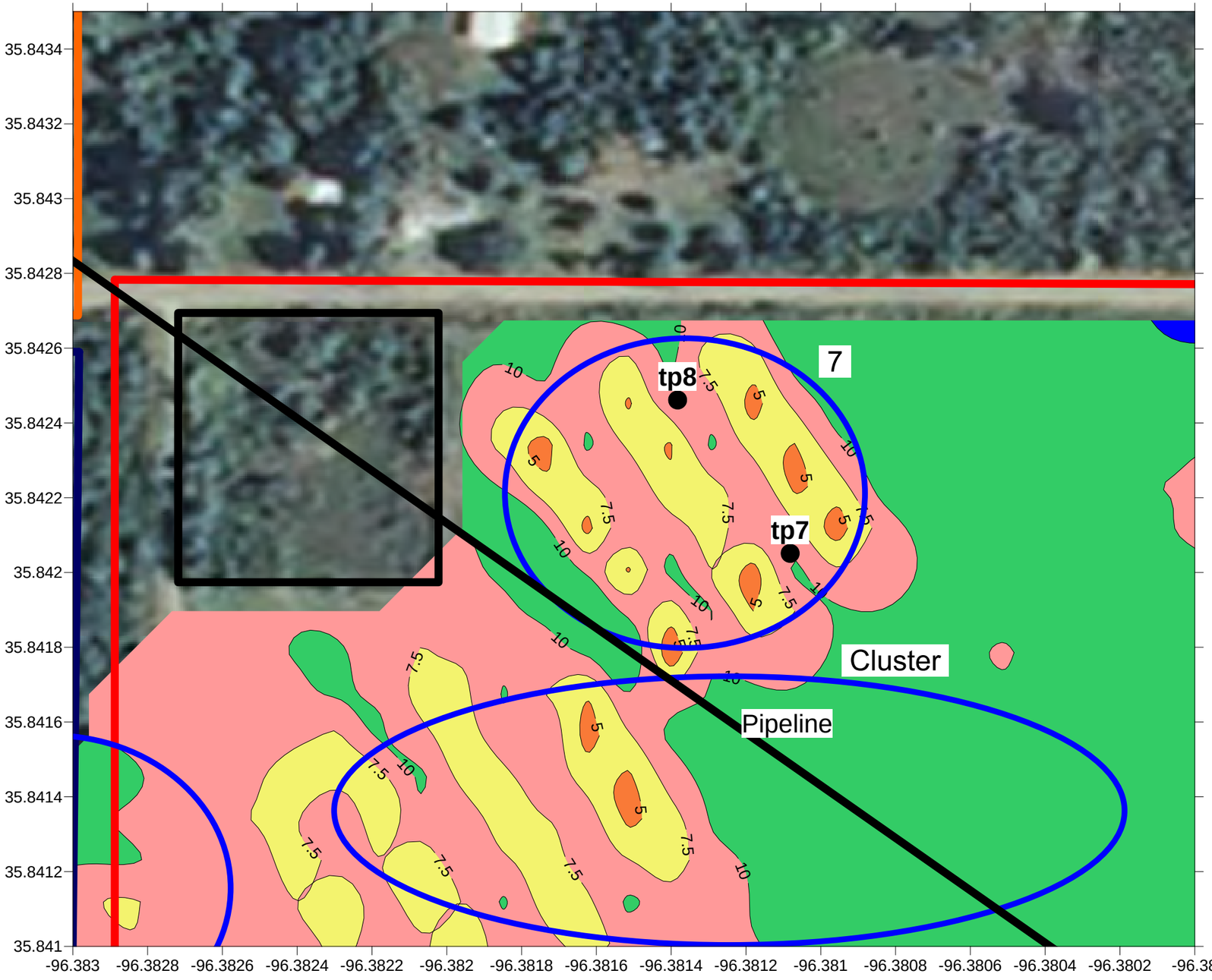
TP8
Bedrock depth greater than 7.4 feet

N
W E
S

015644

Figure 30
Bedrock Elevation
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of Loading Dock Area

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

● Test Pit Location with Identifier

TP7
Bedrock depth greater than 5.5 feet

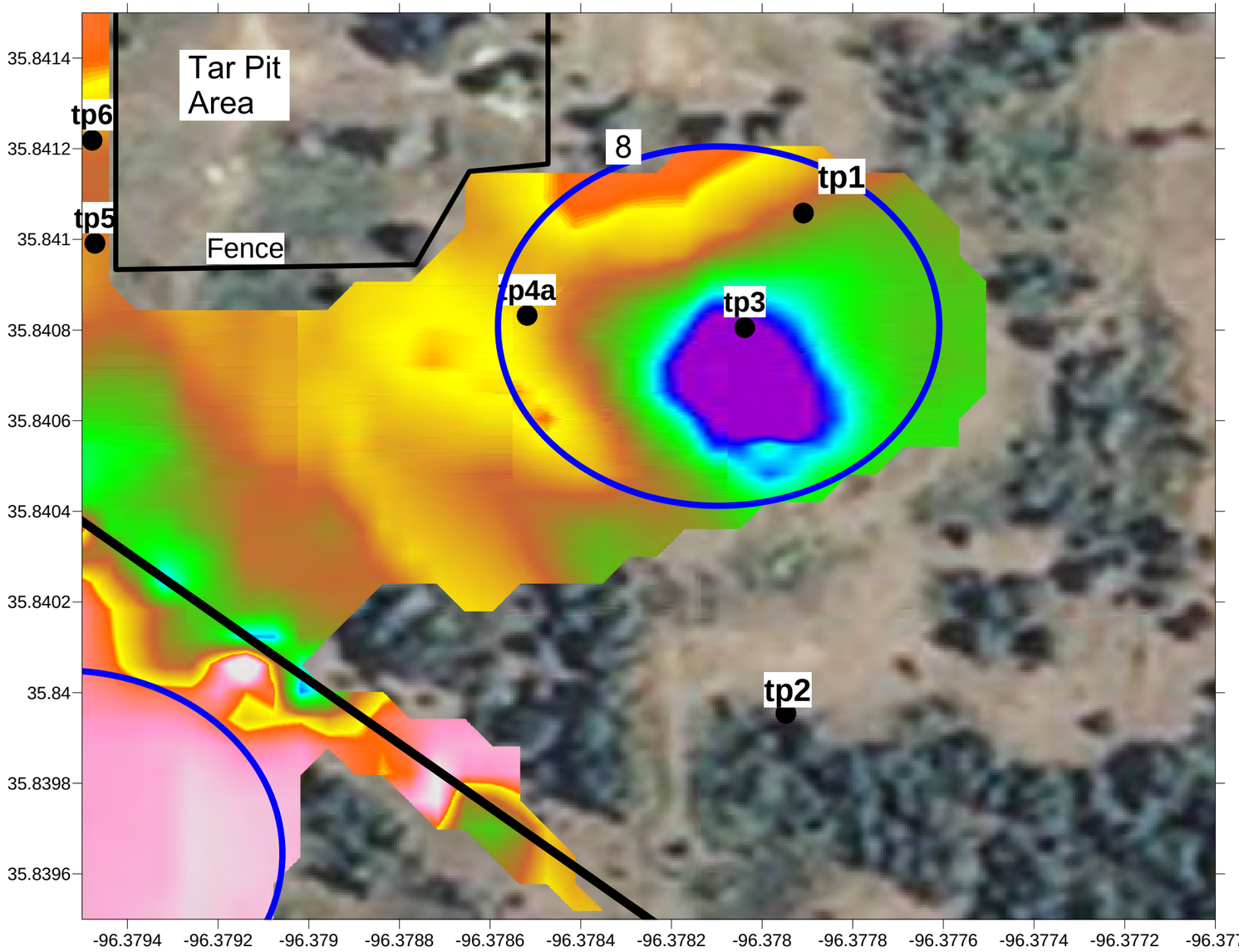
TP8
Bedrock depth greater than 7.4 feet

N
W E
S

015645

Figure 31
Soil Thickness
Tank Cluster and Investigation Area 7

Coordinates are presented in Latitude/Longitude



Conductivity (mmhos/m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

● Test Pit Location with Identifier

TP1
Bedrock depth greater than 6.6 feet

TP2
Bedrock depth greater than 4.0 feet

TP3
Bedrock depth greater than 2.3 feet
Dense grey clay at 2.3 feet

TP4a
Bedrock depth greater than 3.7 feet

TP5
Bedrock depth greater than 5.4 feet
Hard gray clay at 5.4 feet

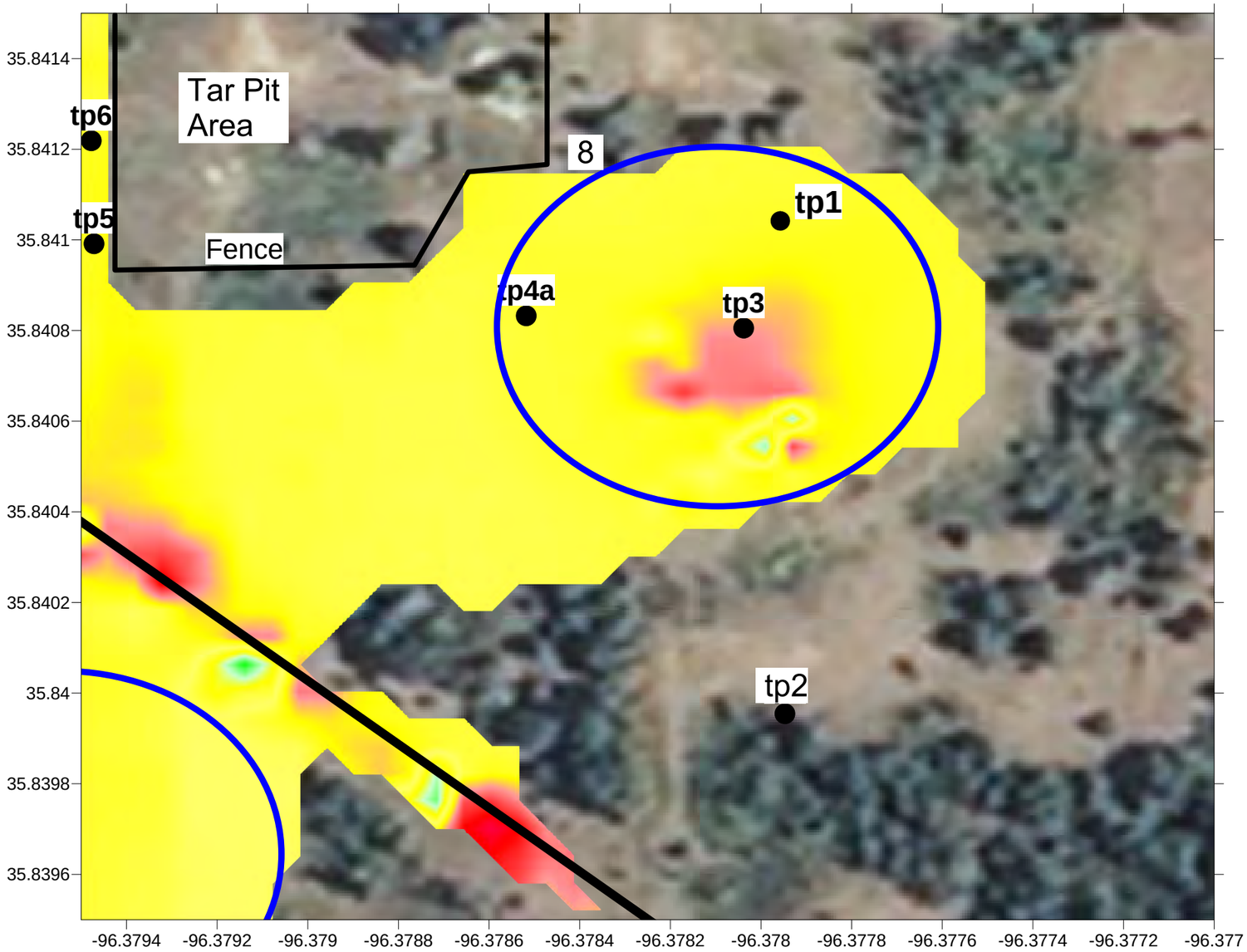
TP6
Bedrock depth 4.5 feet

N
W E
S

Figure 32
EM31 Conductivity Results
Investigation Area 8

Coordinates are presented in Latitude/Longitude

015646



Inphase (ppt)

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

● Test Pit Location with Identifier

TP1
Bedrock depth greater than 6.6 feet

TP2
Bedrock depth greater than 4.0 feet

TP3
Bedrock depth greater than 2.3 feet
Dense grey clay at 2.3 feet

TP4a
Bedrock depth greater than 3.7 feet

TP5
Bedrock depth greater than 5.4 feet
Hard gray clay at 5.4 feet

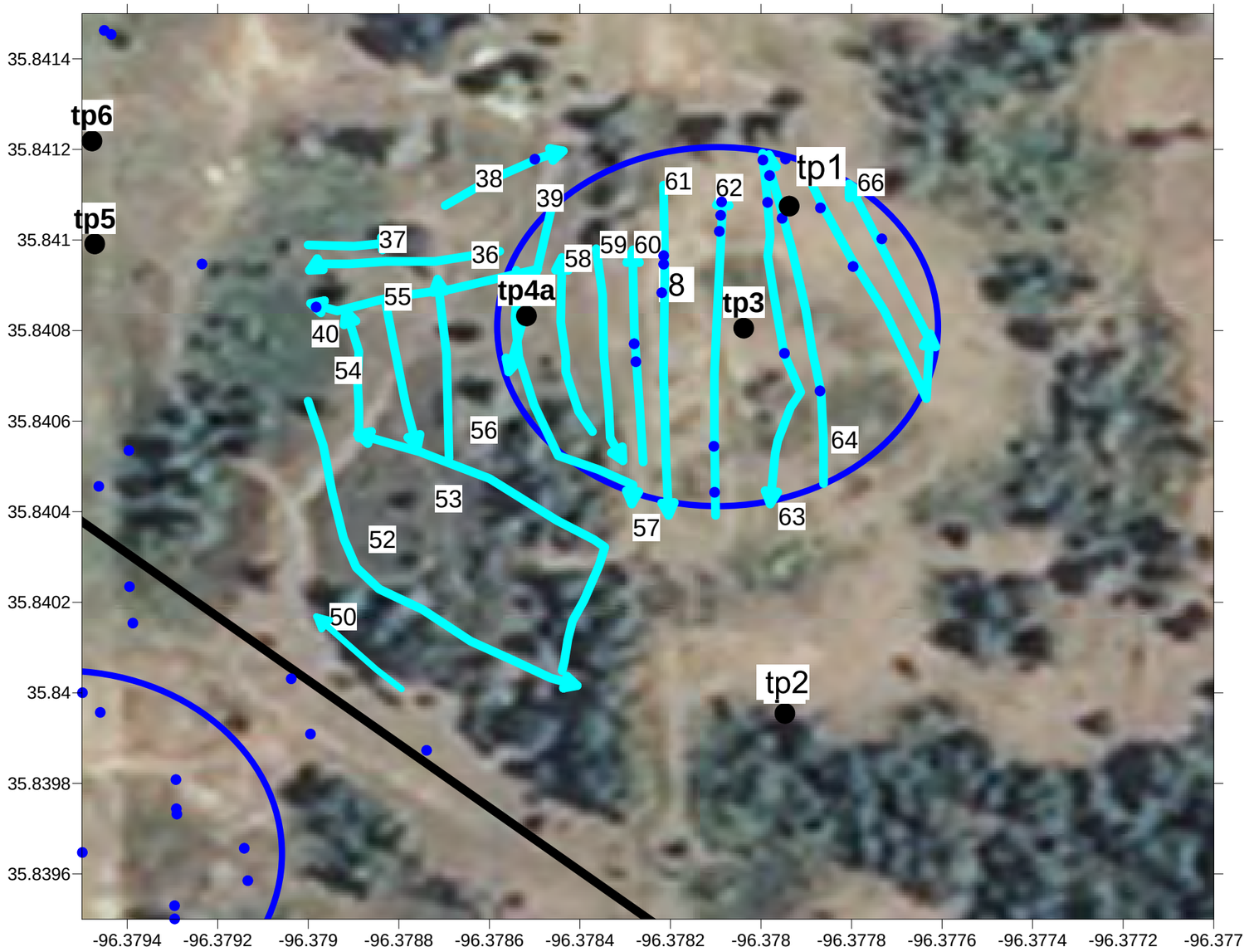
TP6
Bedrock depth 4.5 feet

N
W E
S

015647

Figure 33
EM31 Inphase Results
Investigation Area 8

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

66 → Location of GPR Profile With Direction of Travel And Identifier

● Test Pit Location with Identifier

TP1
Bedrock depth greater than 6.6 feet

TP2
Bedrock depth greater than 4.0 feet

TP3
Bedrock depth greater than 2.3 feet
Dense grey clay at 2.3 feet

TP4a
Bedrock depth greater than 3.7 feet

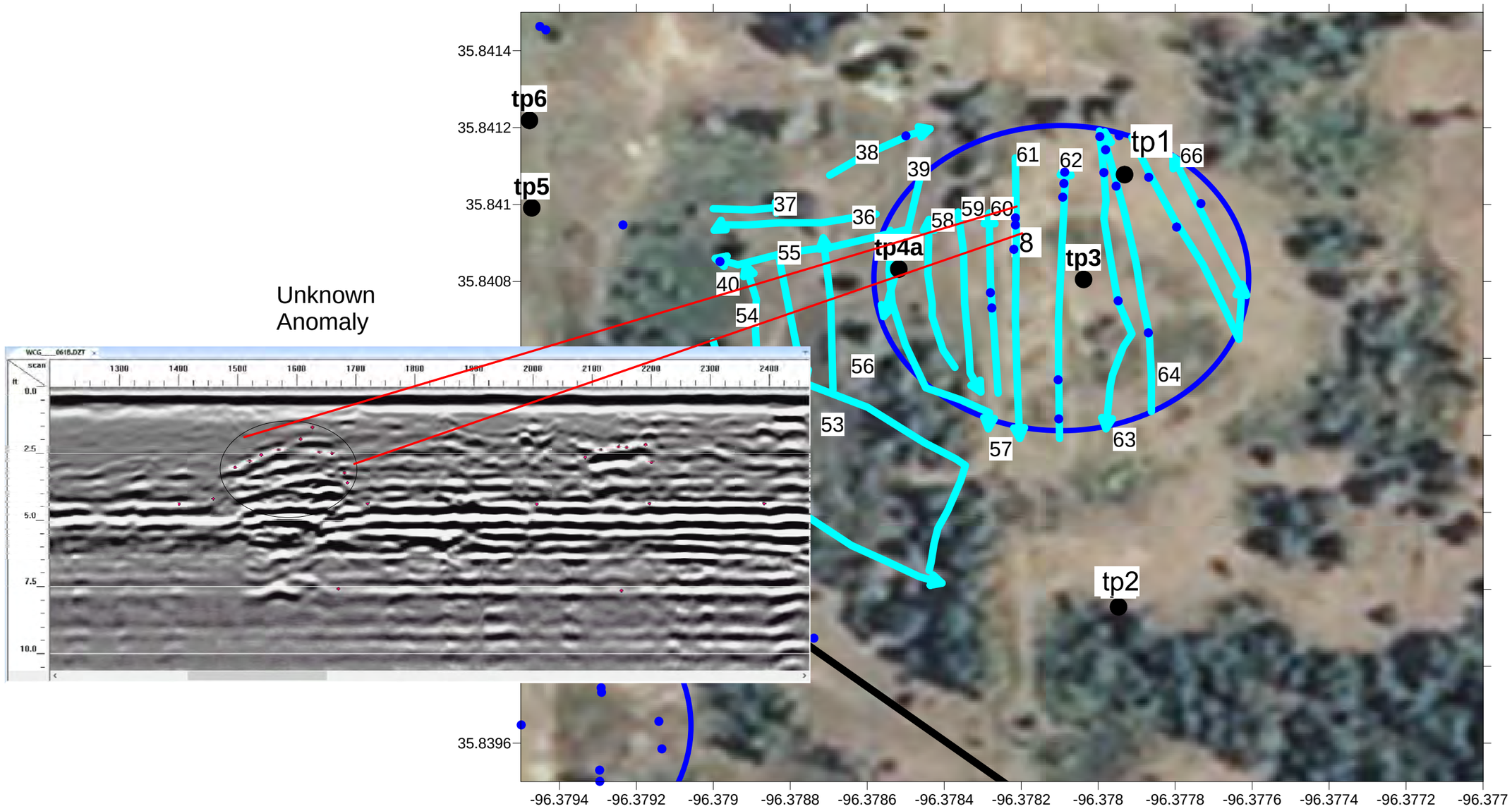
TP5
Bedrock depth greater than 5.4 feet
Hard gray clay at 5.4 feet

TP6
Bedrock depth 4.5 feet

N
W E
S
015648

Figure 34
Location of GPR Traverses and Anomalies
Investigation Area 8

Coordinates are presented in Latitude/Longitude



● GPR Anomaly Location

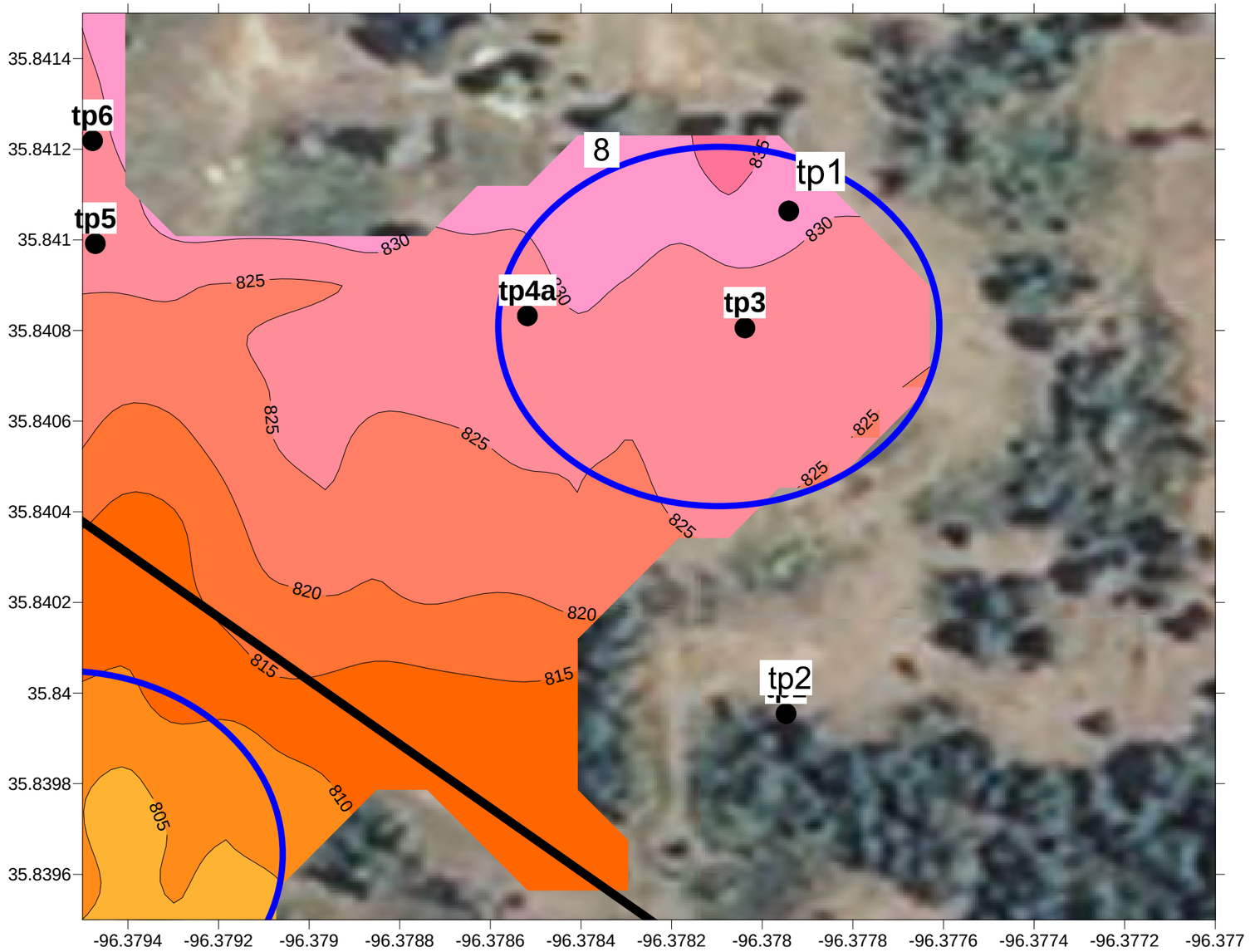
66 → Location of GPR Profile With Direction of Travel And Identifier

N
W
E
S

015649

Figure 35
GPR Profiles
Investigation Area 8

Coordinates are presented in Latitude/Longitude



Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

● Test Pit Location with Identifier

TP1
Bedrock depth greater than 6.6 feet

TP2
Bedrock depth greater than 4.0 feet

TP3
Bedrock depth greater than 2.3 feet
Dense grey clay at 2.3 feet

TP4a
Bedrock depth greater than 3.7 feet

TP5
Bedrock depth greater than 5.4 feet
Hard gray clay at 5.4 feet

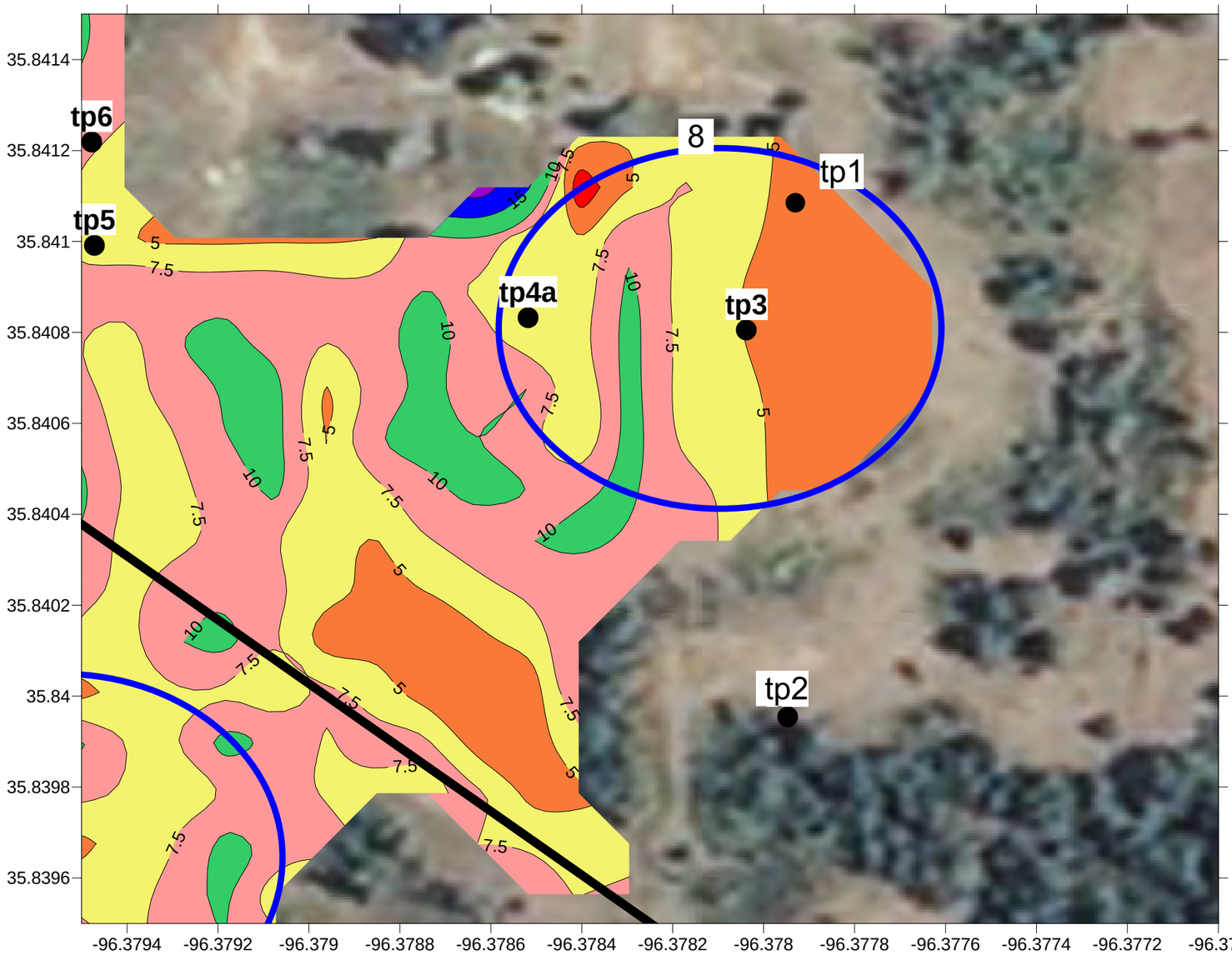
TP6
Bedrock depth 4.5 feet

N
W E
S

Figure 36
Bedrock Elevation
Investigation Area 8

Coordinates are presented in Latitude/Longitude

015650



Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

● Test Pit Location with Identifier

TP1
Bedrock depth greater than 6.6 feet

TP2
Bedrock depth greater than 4.0 feet

TP3
Bedrock depth greater than 2.3 feet
Dense grey clay at 2.3 feet

TP4a
Bedrock depth greater than 3.7 feet

TP5
Bedrock depth greater than 5.4 feet
Hard gray clay at 5.4 feet

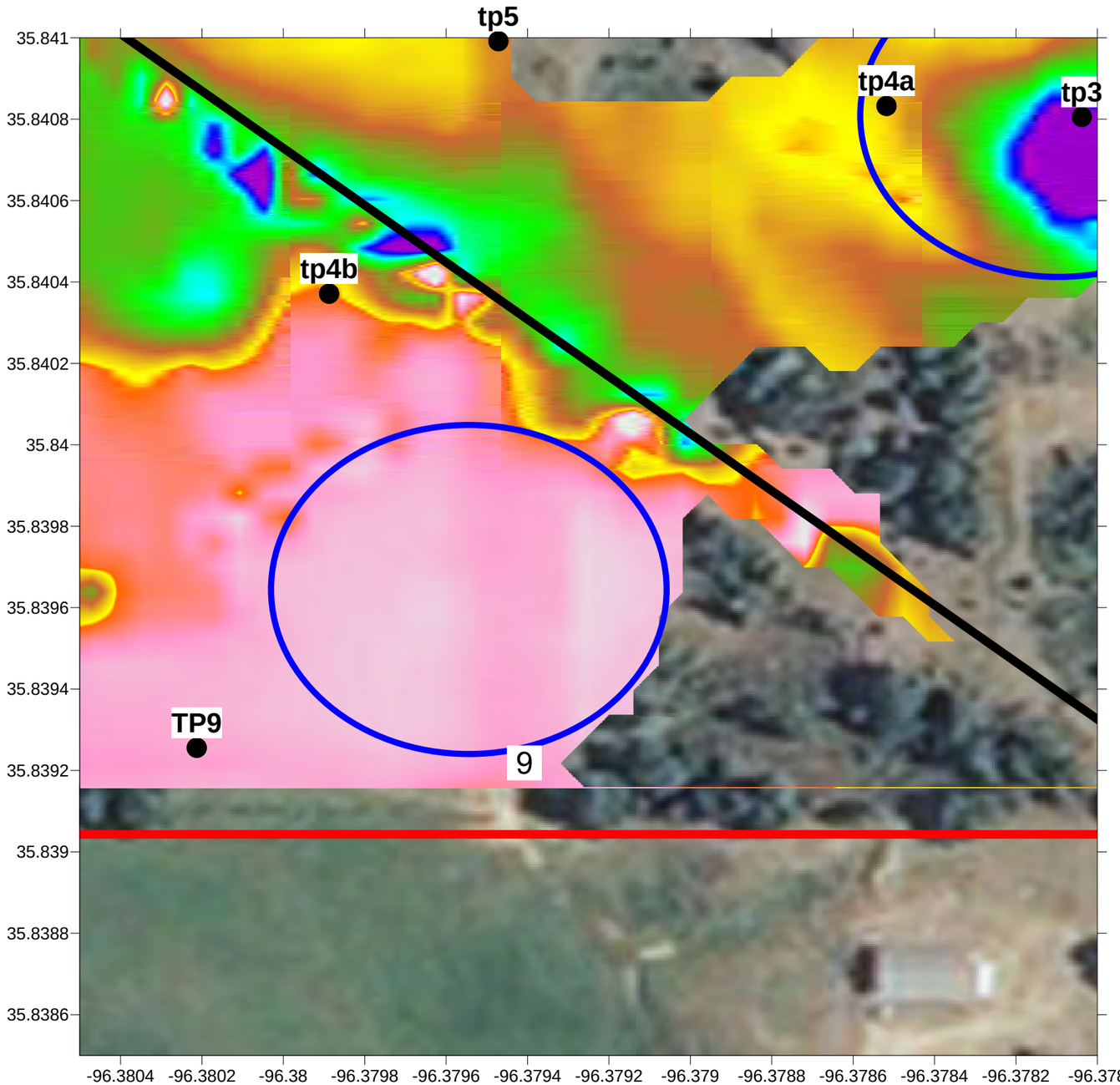
TP6
Bedrock depth 4.5 feet

N
W E
S

015651

Figure 37
Soil Thickness
Investigation Area 8

Coordinates are presented in Latitude/Longitude



Conductivity (mmhos/m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95100

● Test Pit Location with Identifier

TP4b
Bedrock depth 6.1 feet

TP5
Bedrock depth greater than 5.5 feet

TP9
Bedrock depth greater than 7.5 feet

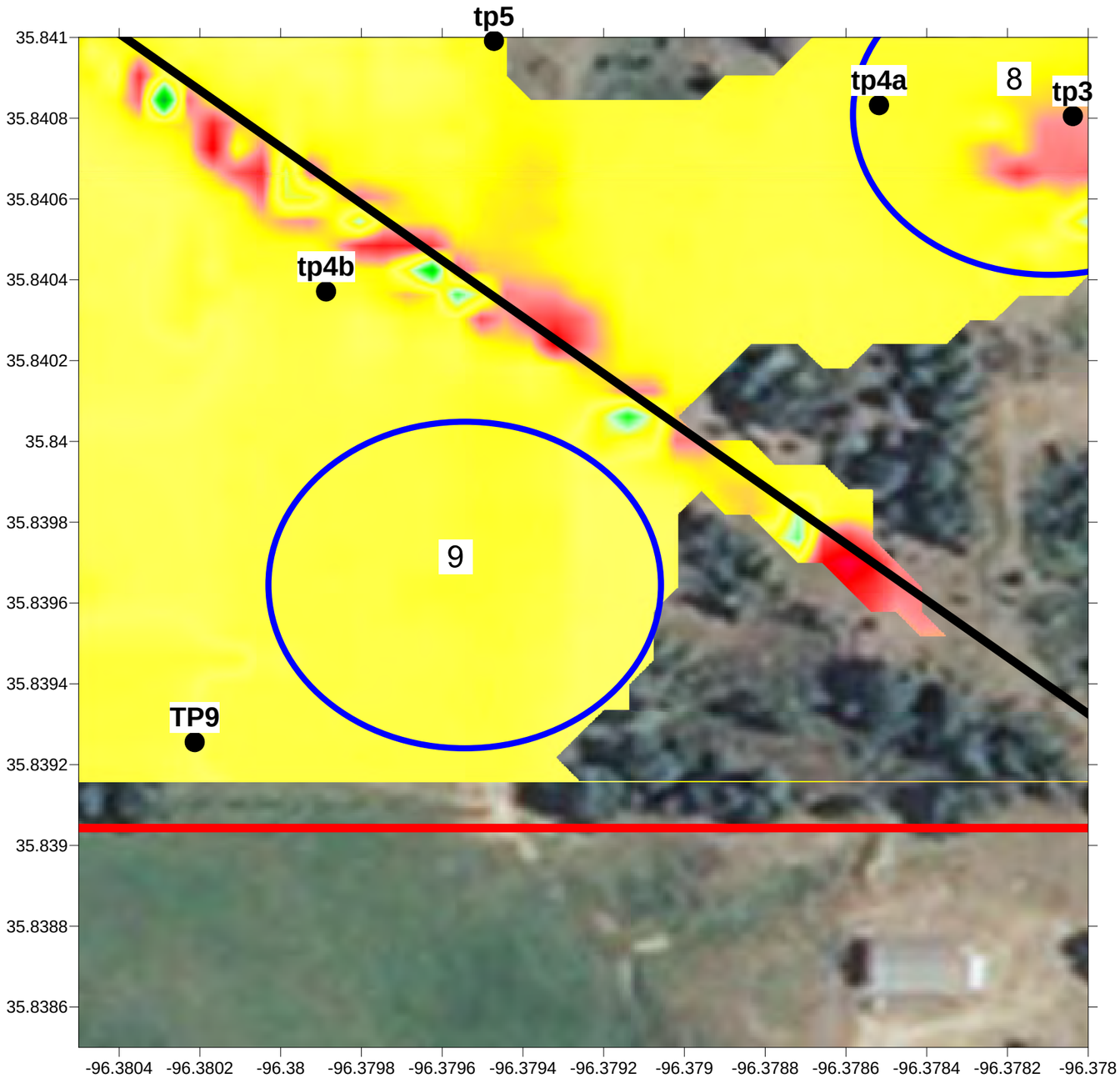
Estimated boundary of
East Tank Farm

N
W E
S

015652

Figure 38
EM31 Conductivity Results
Investigation Area 9

Coordinates are presented in Latitude/Longitude



Inphase (ppt)

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

TP4b
Bedrock depth 6.1 feet

TP5
Bedrock depth greater than 5.5 feet

TP9
Bedrock depth greater than 7.5 feet

Estimated boundary of
East Tank Farm

N
W
E
S

015653

Figure 39
EM31 Inphase Results
Investigation Area 9

Coordinates are presented in Latitude/Longitude

GPR Anomaly Location

66 → Location of GPR Profile With Direction of Travel And Identifier

TP4b
Bedrock depth 6.1 feet

TP5
Bedrock depth greater than 5.5 feet

TP9
Bedrock depth greater than 7.5 feet

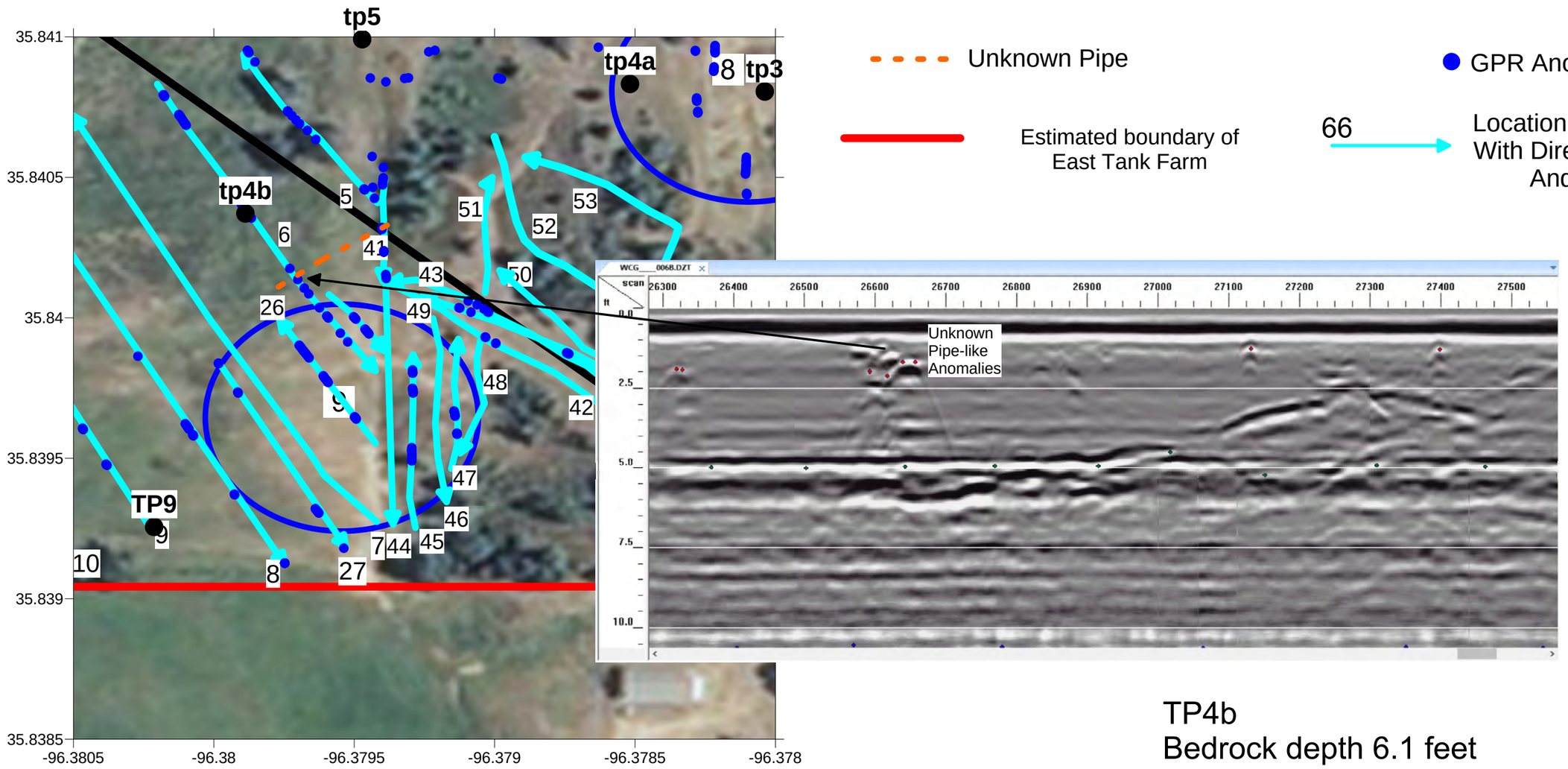
Estimated boundary of East Tank Farm

N W E S

015654

Figure 40
Location of GPR Traverses and Anomalies
Investigation Area 9

Coordinates are presented in Latitude/Longitude



TP4b
Bedrock depth 6.1 feet

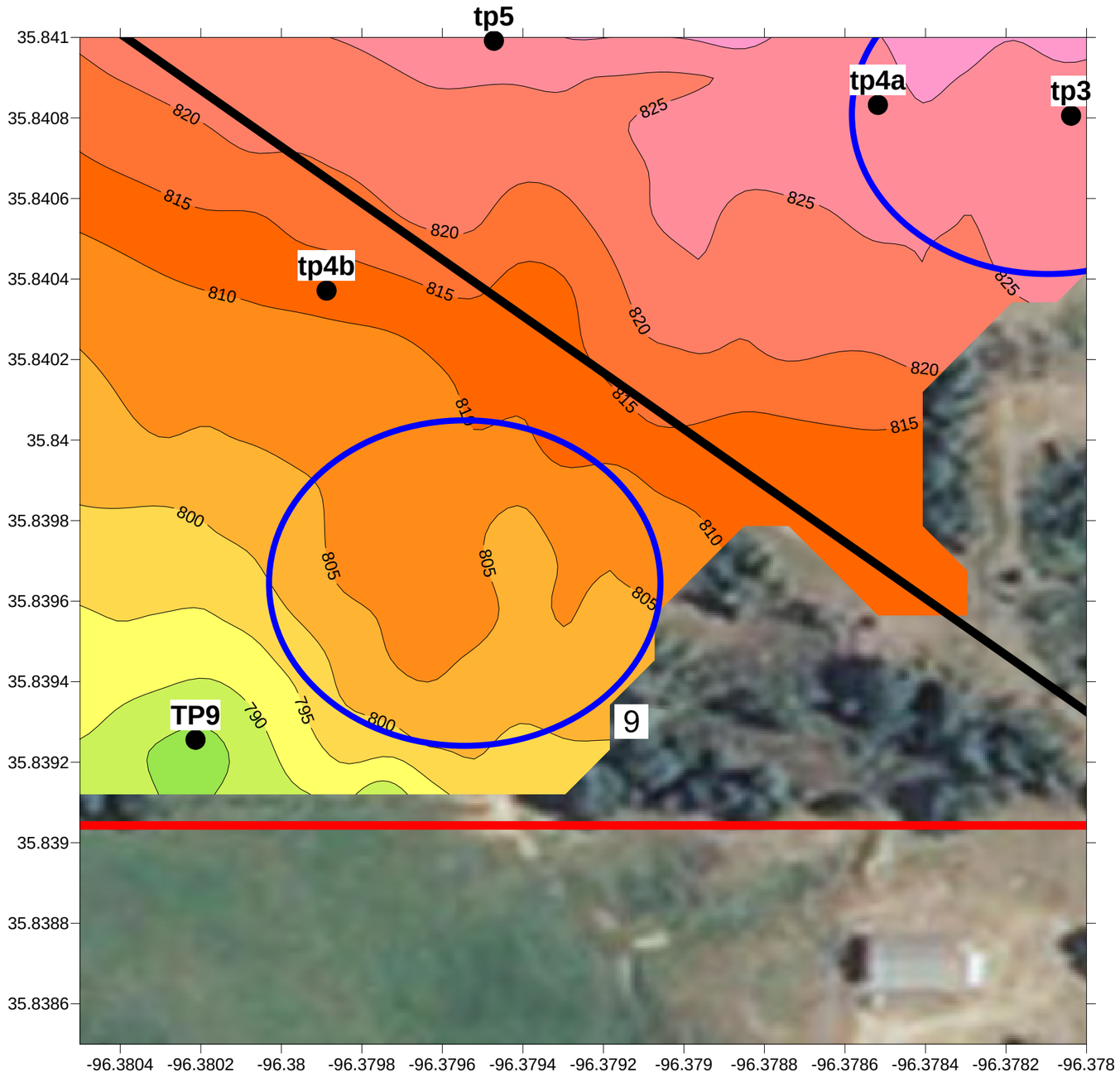
TP5
Bedrock depth greater than 5.5 feet

TP9
Bedrock depth greater than 7.5 feet

Coordinates are presented in Latitude/Longitude

Figure 41
GPR Profiles
Investigation Area 9

N
W
E
S
015655



Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

Estimated boundary of East Tank Farm

TP4b
Bedrock depth 6.1 feet

TP5
Bedrock depth greater than 5.5 feet

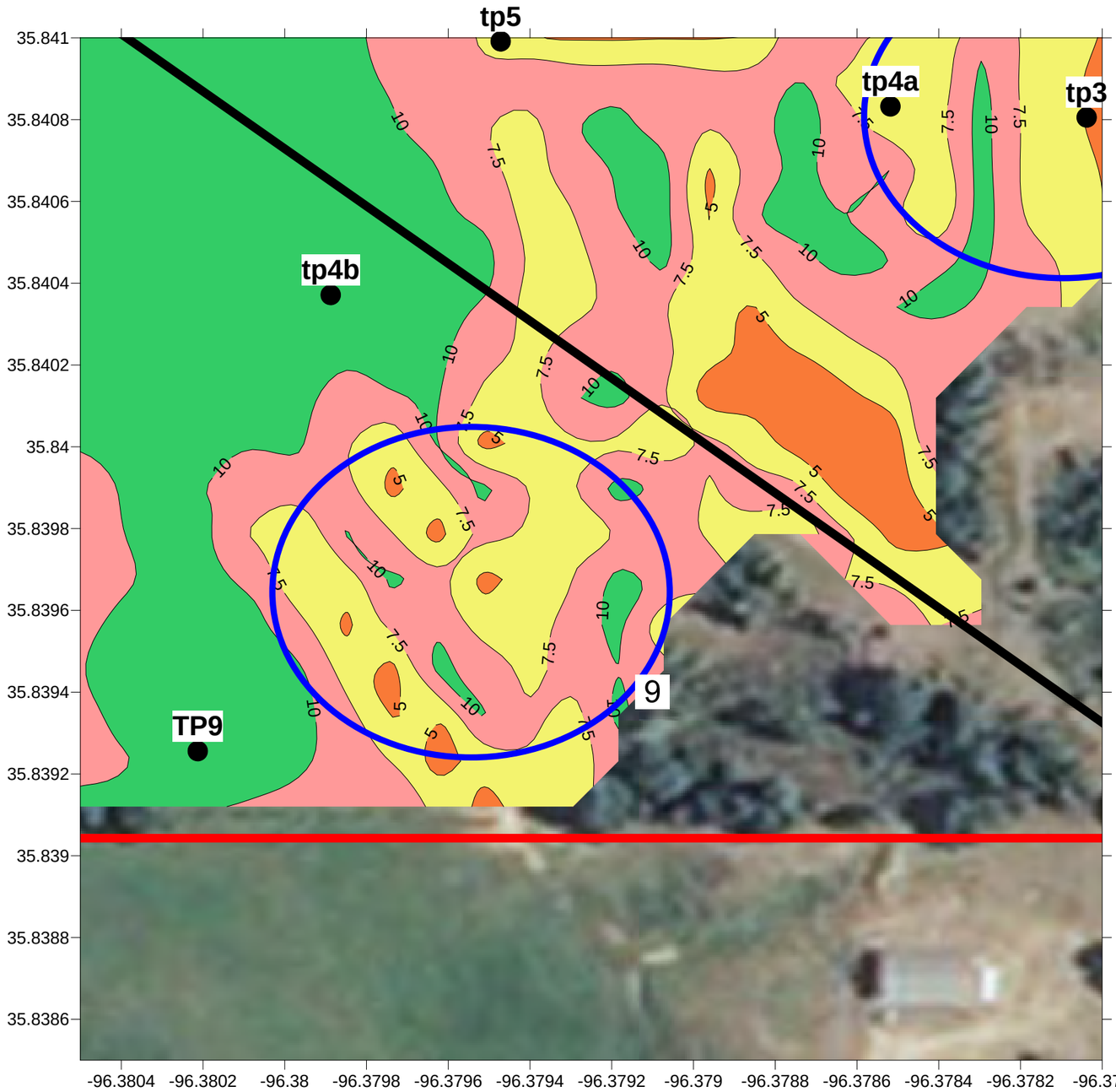
TP9
Bedrock depth greater than 7.5 feet

N
W E
S

015656

Figure 42
Bedrock Elevation
Investigation Area 9

Coordinates are presented in Latitude/Longitude



Estimated boundary of East Tank Farm

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

TP4b
Bedrock depth 6.1 feet

TP5
Bedrock depth greater than 5.5 feet

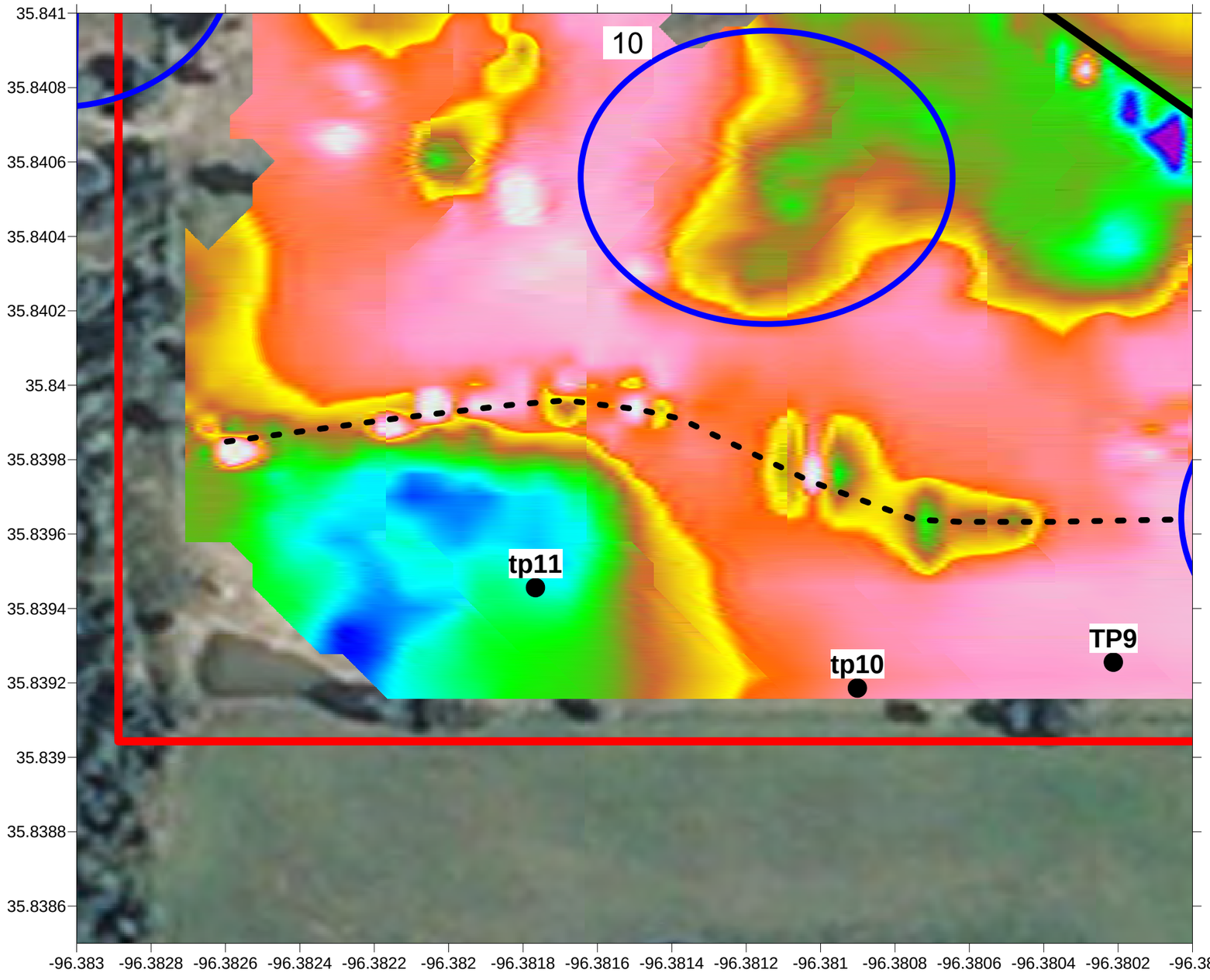
TP9
Bedrock depth greater than 7.5 feet

N
W E
S

015657

Figure 43
Soil Thickness
Investigation Area 9

Coordinates are presented in Latitude/Longitude



Conductivity (mmhos/m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

● Test Pit Location with Identifier

TP9
Bedrock depth greater than 7.5

TP10
Bedrock depth greater than 9.5 feet

TP11
Bedrock depth greater than 9.5 feet

- - - - Unknown Pipelike Anomaly

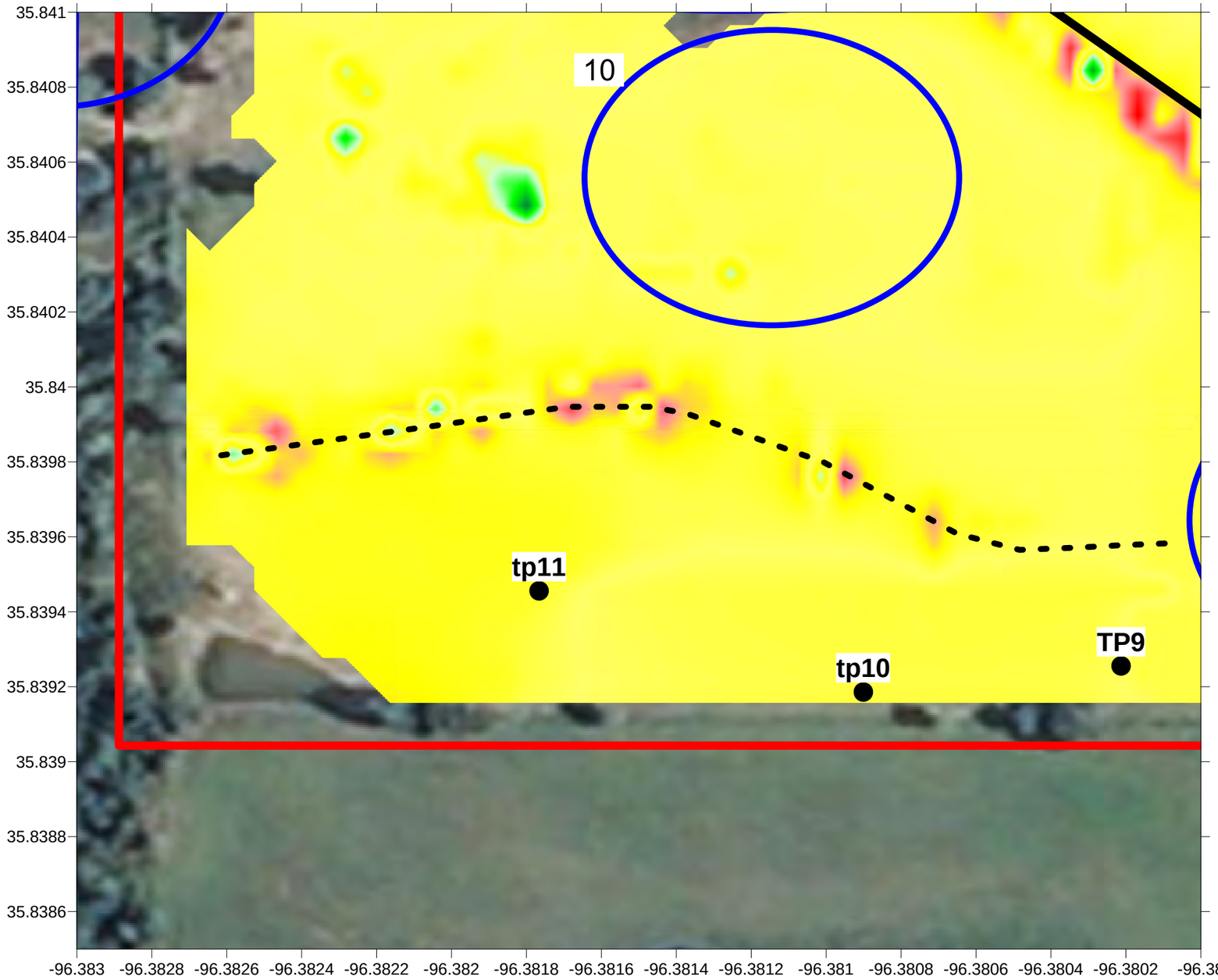
Estimated boundary of
East Tank Farm

N
W E
S

015658

Figure 44
EM31 Conductivity Results
Investigation Area 10

Coordinates are presented in Latitude/Longitude



Inphase (ppt)

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

● Test Pit Location with Identifier

TP9
Bedrock depth greater than 7.5

TP10
Bedrock depth greater than 9.5 feet

TP11
Bedrock depth greater than 9.5 feet

- - - - Unknown Pipelike Anomaly

Estimated boundary of
East Tank Farm

N
W E
S
015659

Figure 45
EM31 Inphase Results
Investigation Area 10

Coordinates are presented in Latitude/Longitude

GPR Anomaly Location

66 → Location of GPR Profile With Direction of Travel And Identifier

Test Pit Location with Identifier

TP9
Bedrock depth greater than 7.5

TP10
Bedrock depth greater than 9.5 feet

TP11
Bedrock depth greater than 9.5 feet

Estimated boundary of East Tank Farm

N
W E
S
015660

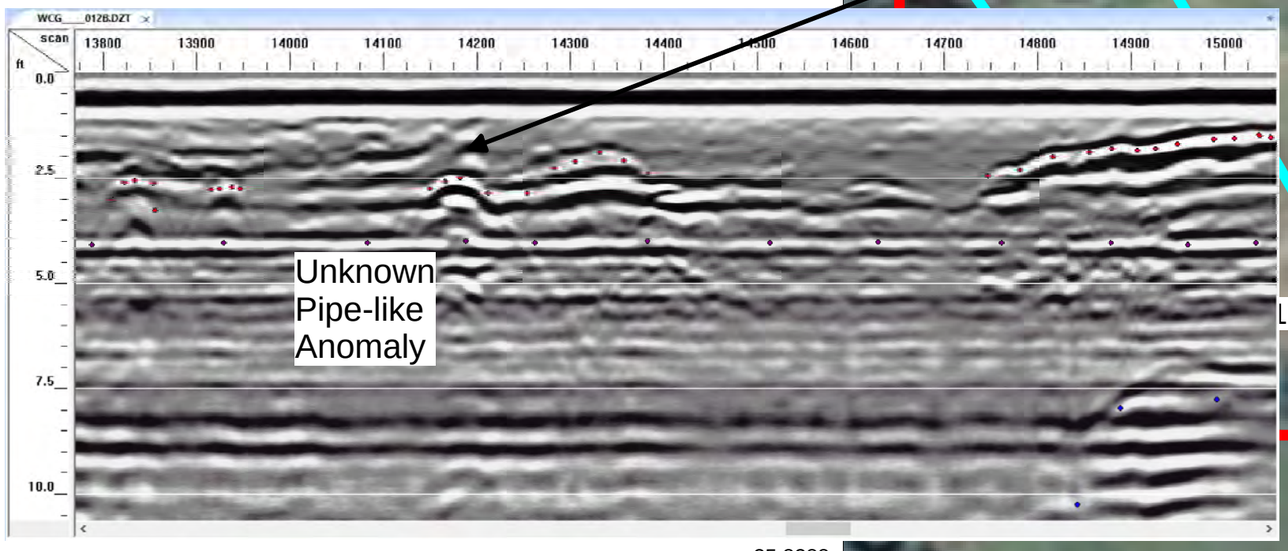
Figure 46
Location of GPR Traverses and Anomalies
Investigation Area 10

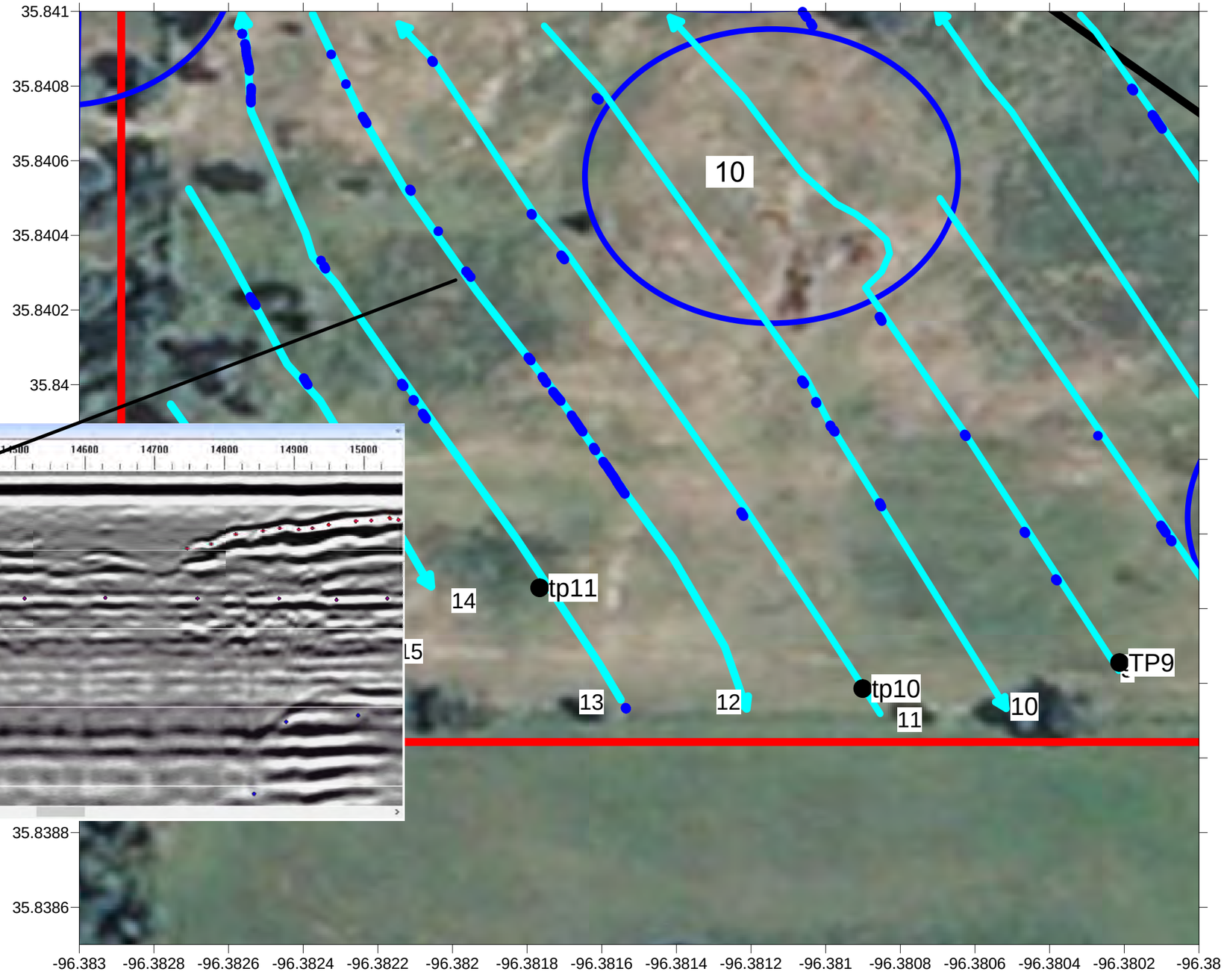
Coordinates are presented in Latitude/Longitude

GPR Anomaly Location

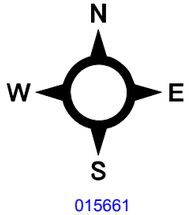
66 Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of East Tank Farm



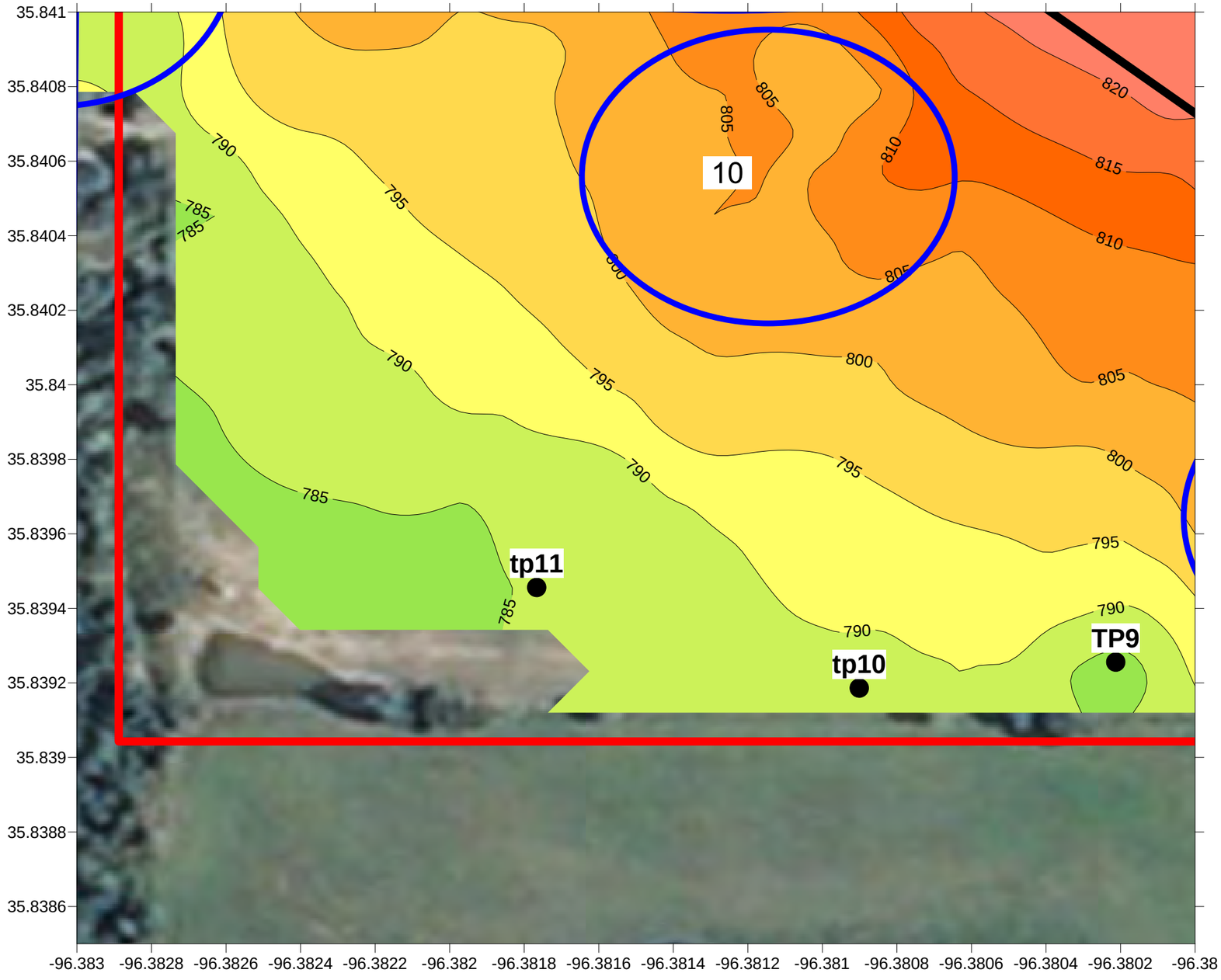


Coordinates are presented in Latitude/Longitude



015661

Figure 47
GPR Profiles
Investigation Area 10



Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

● Test Pit Location with Identifier

TP9
Bedrock depth greater than 7.5

TP10
Bedrock depth greater than 9.5 feet

TP11
Bedrock depth greater than 9.5 feet

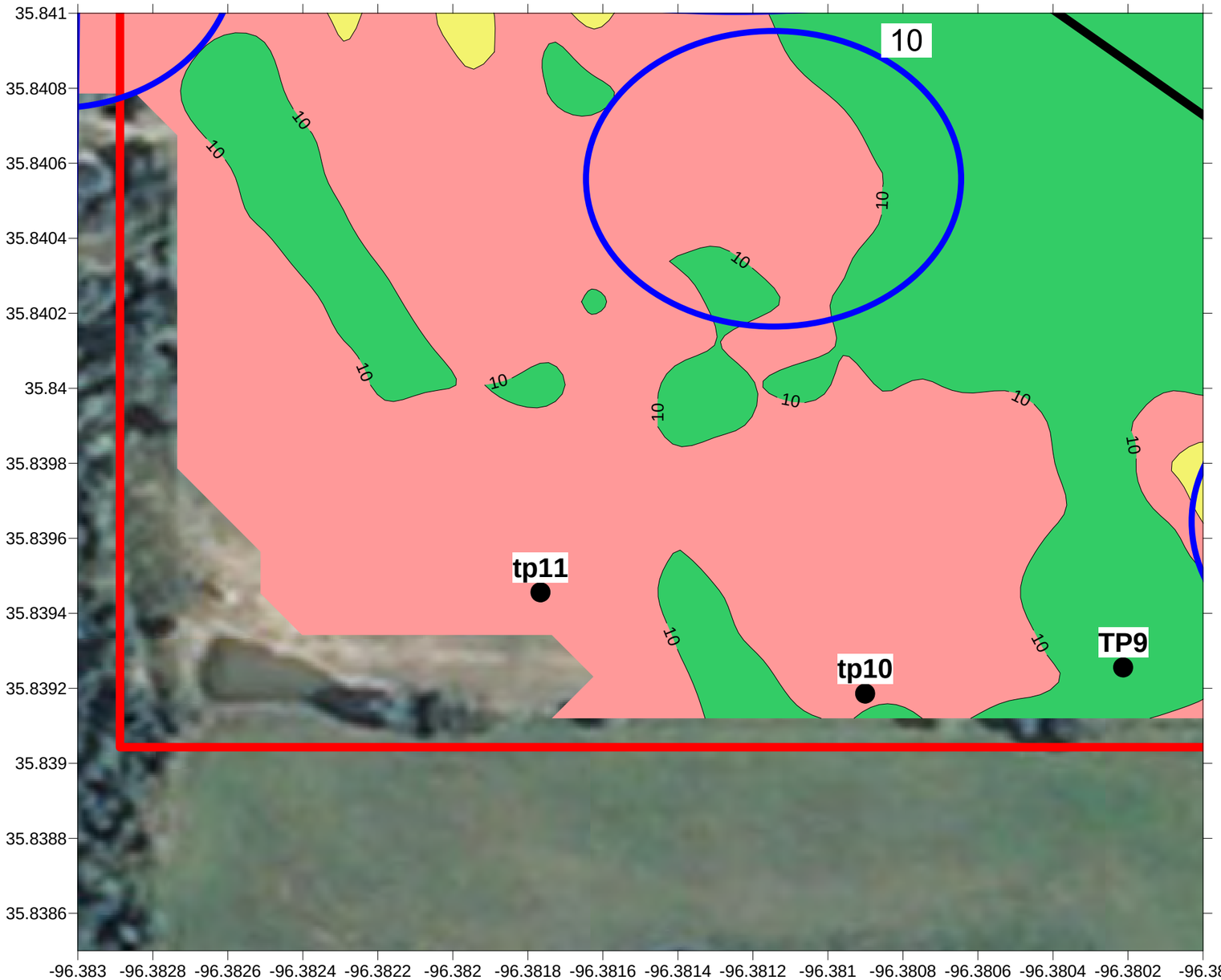
Estimated boundary of
East Tank Farm

N
W E
S

015662

Figure 48
Bedrock Elevation
Investigation Area 10

Coordinates are presented in Latitude/Longitude



Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

● Test Pit Location with Identifier

TP9
Bedrock depth greater than 7.5

TP10
Bedrock depth greater than 9.5 feet

TP11
Bedrock depth greater than 9.5 feet

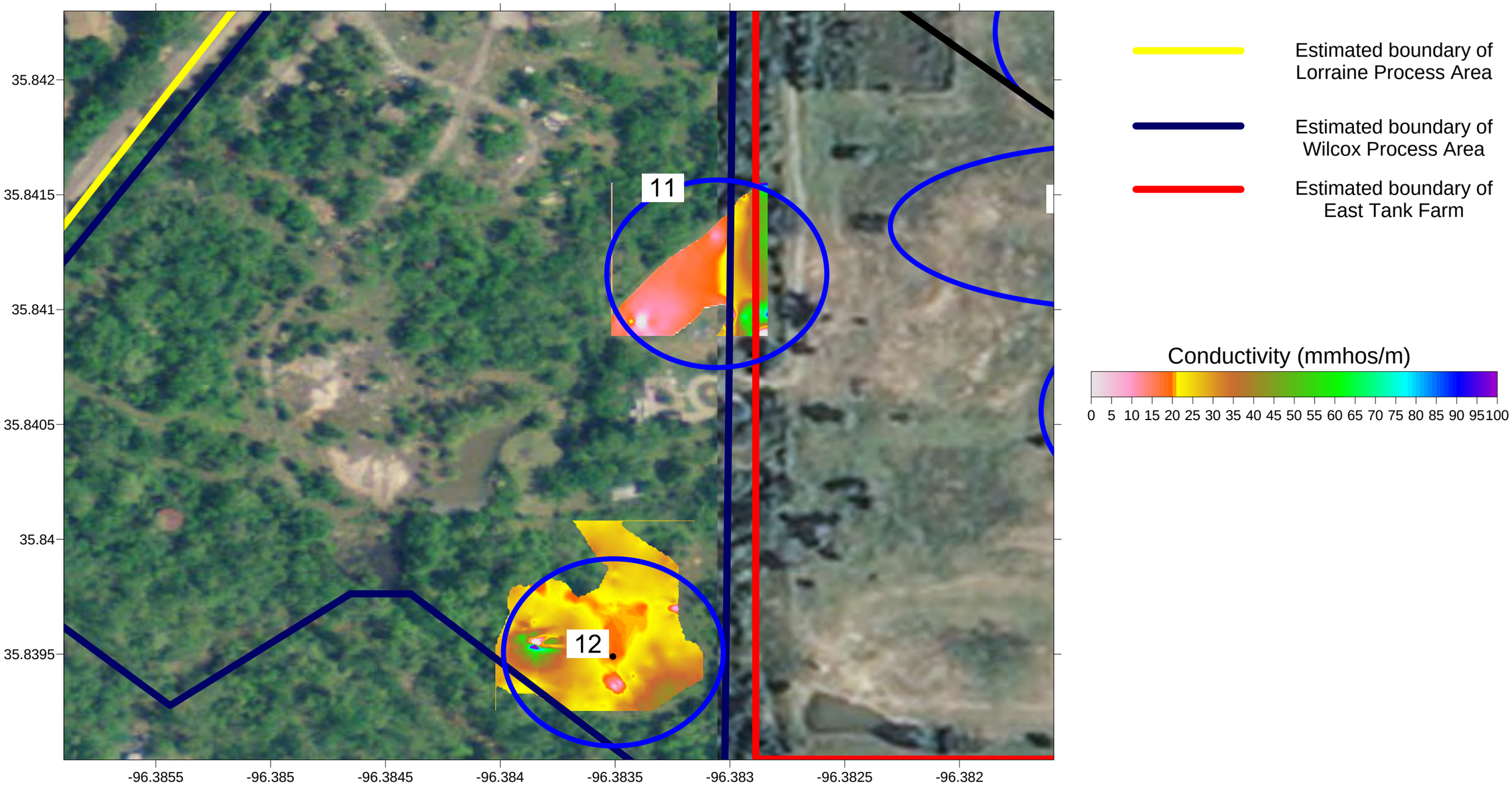
Estimated boundary of
East Tank Farm

N
W E
S

015663

Figure 49
Soil Thickness
Investigation Area 10

Coordinates are presented in Latitude/Longitude

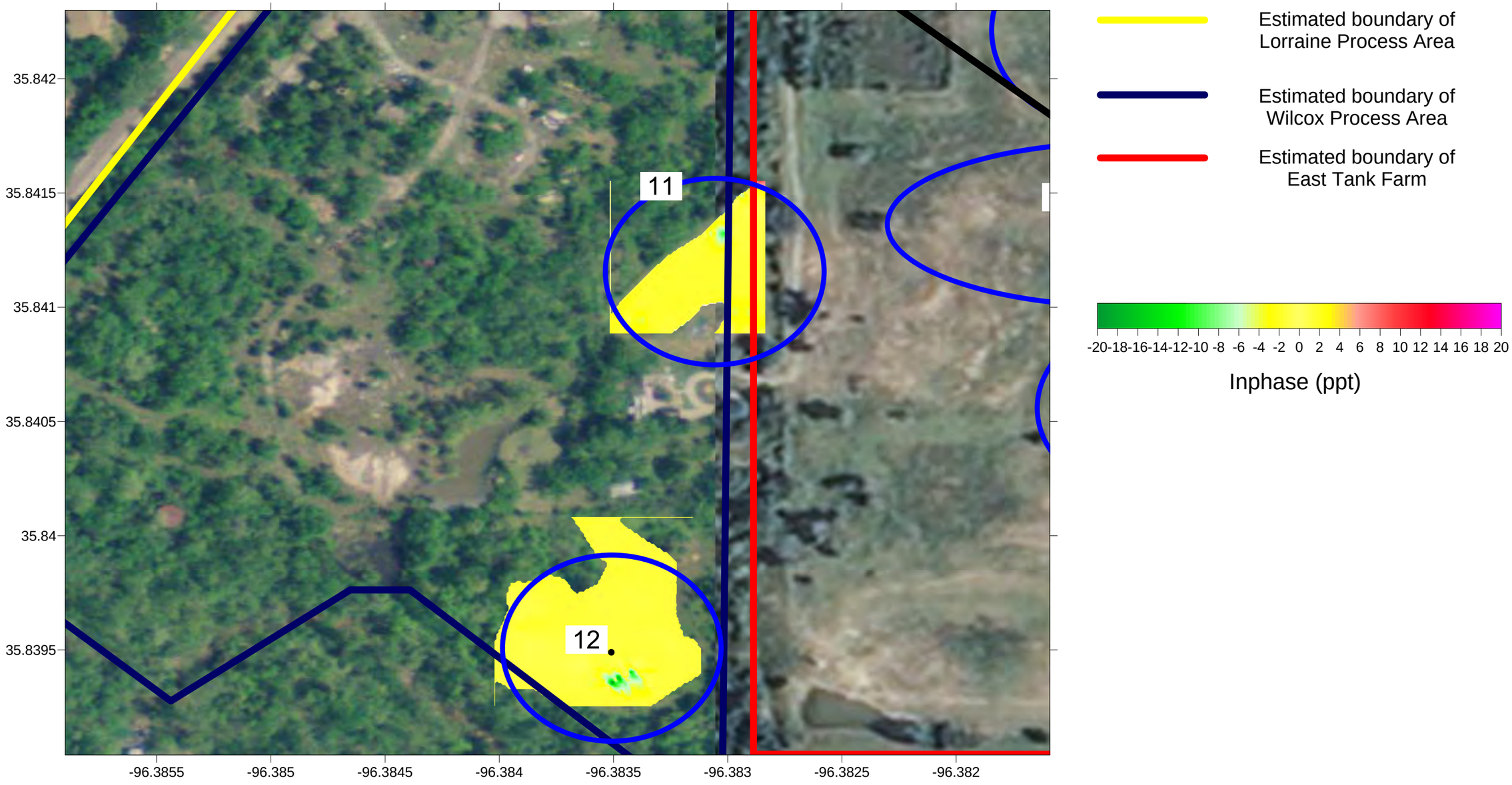


N
W E
S

015664

Figure 50
Overview of EM31 Conductivity
Investigation Areas 11 and 12

Coordinates are presented in Latitude/Longitude

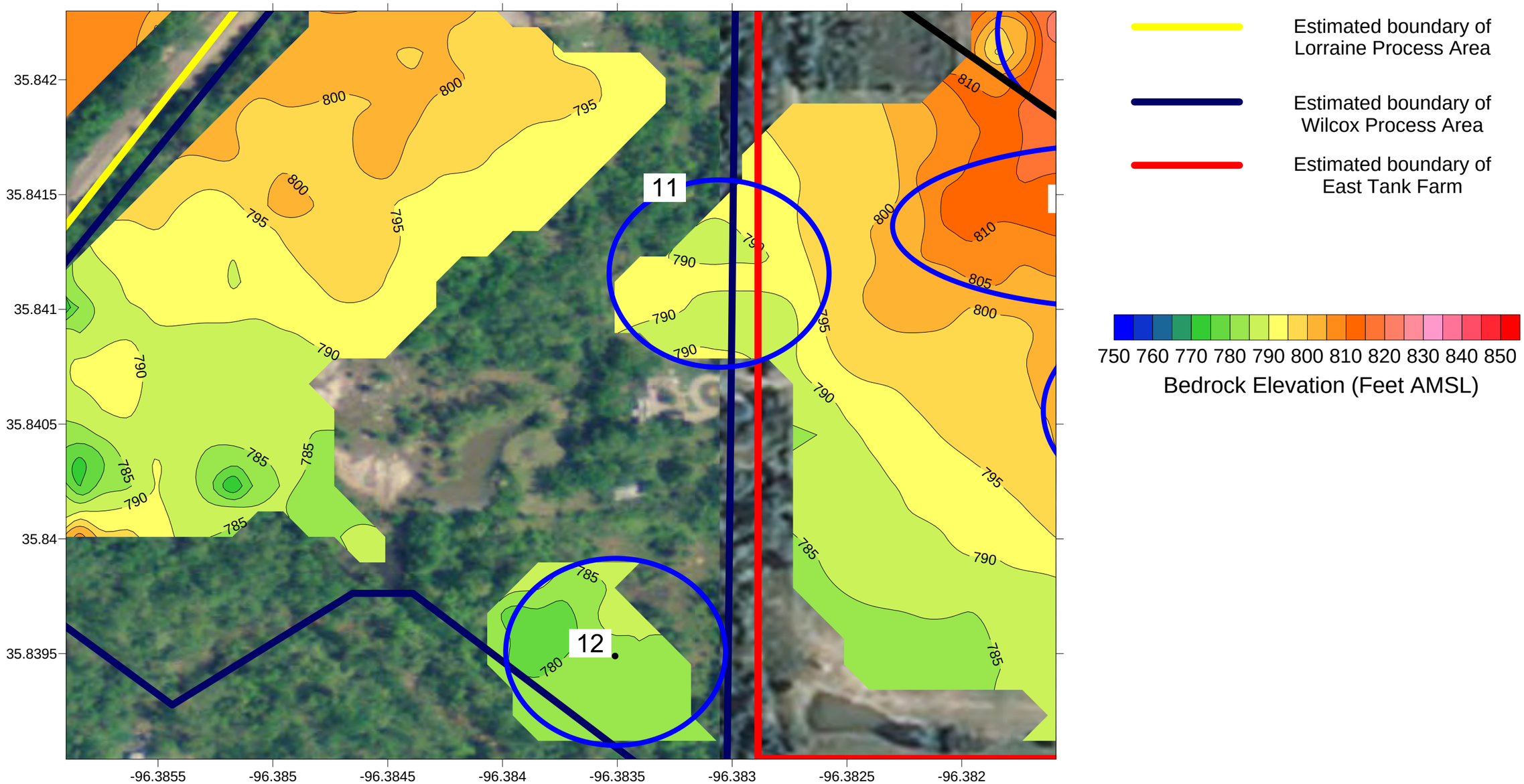


N
W E
S

015665

Figure 51
Overview of EM31 Inphase
Investigation Areas 11 and 12

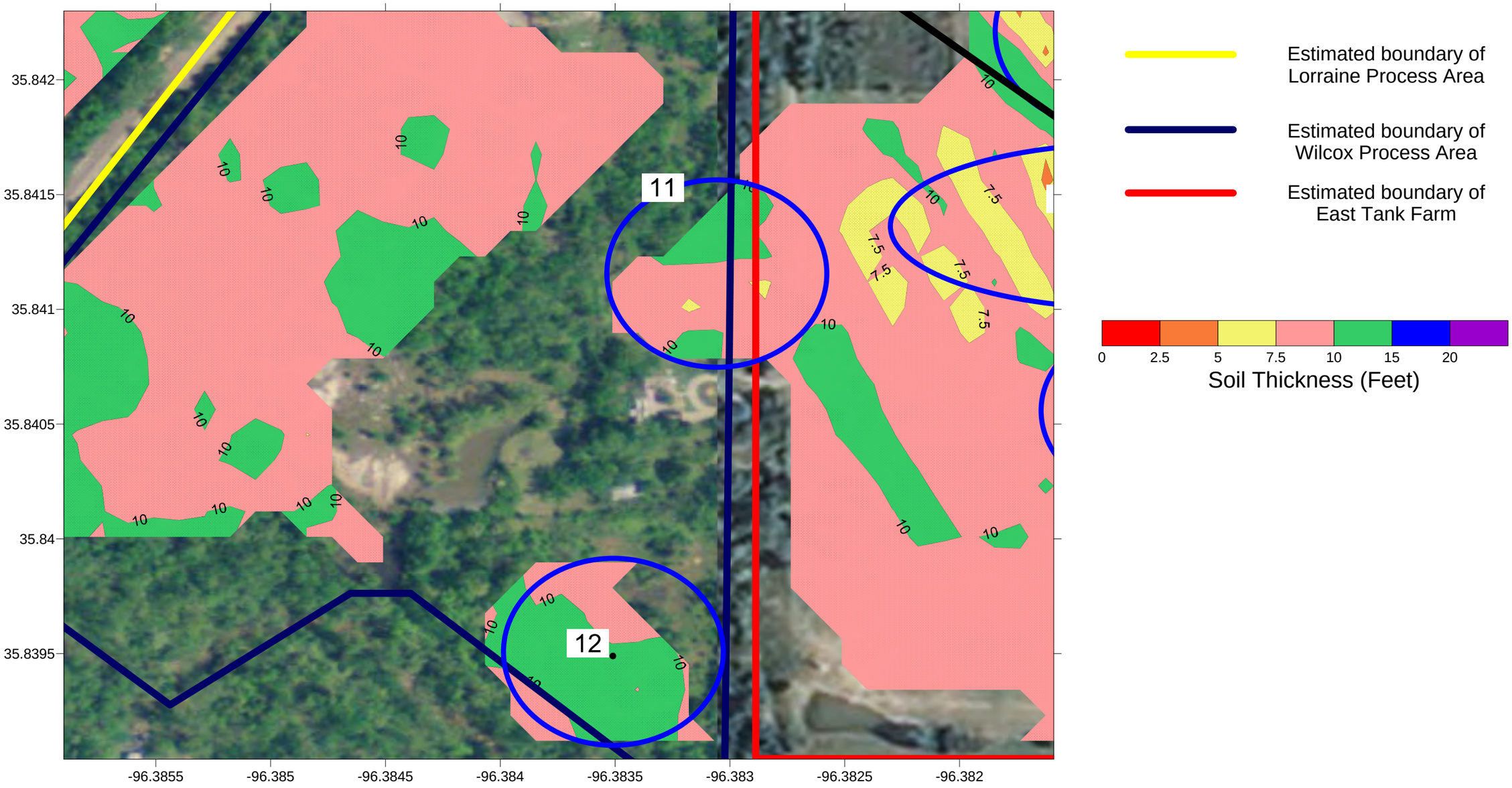
Coordinates are presented in Latitude/Longitude



015666

Figure 52
Overview of Bedrock Elevations
Investigation Areas 11 and 12

Coordinates are presented in Latitude/Longitude

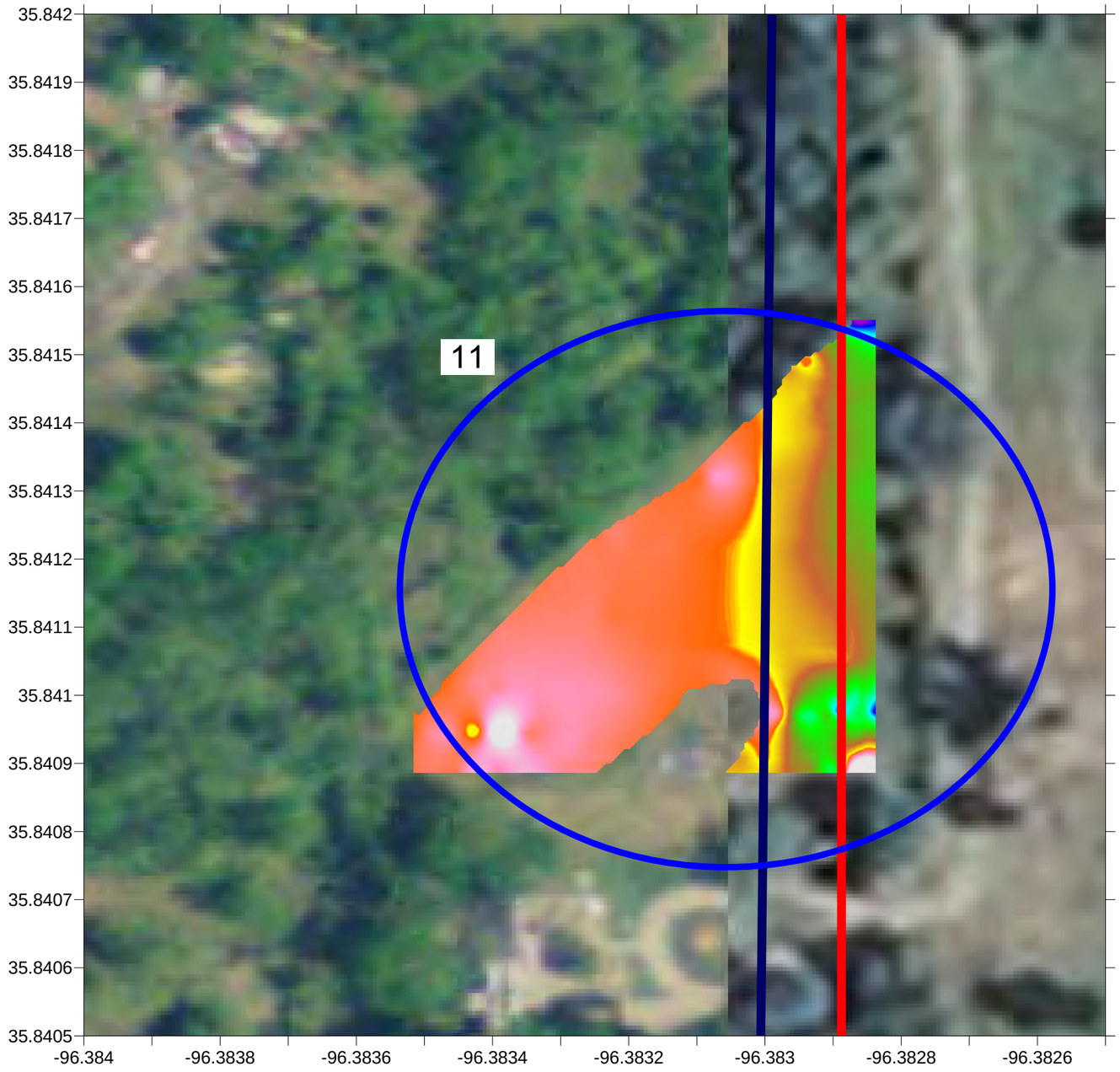


N
W
E
S

015667

Figure 53
Overview of Soil Thickness
Investigation Areas 11 and 12

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Conductivity (mmhos/m)

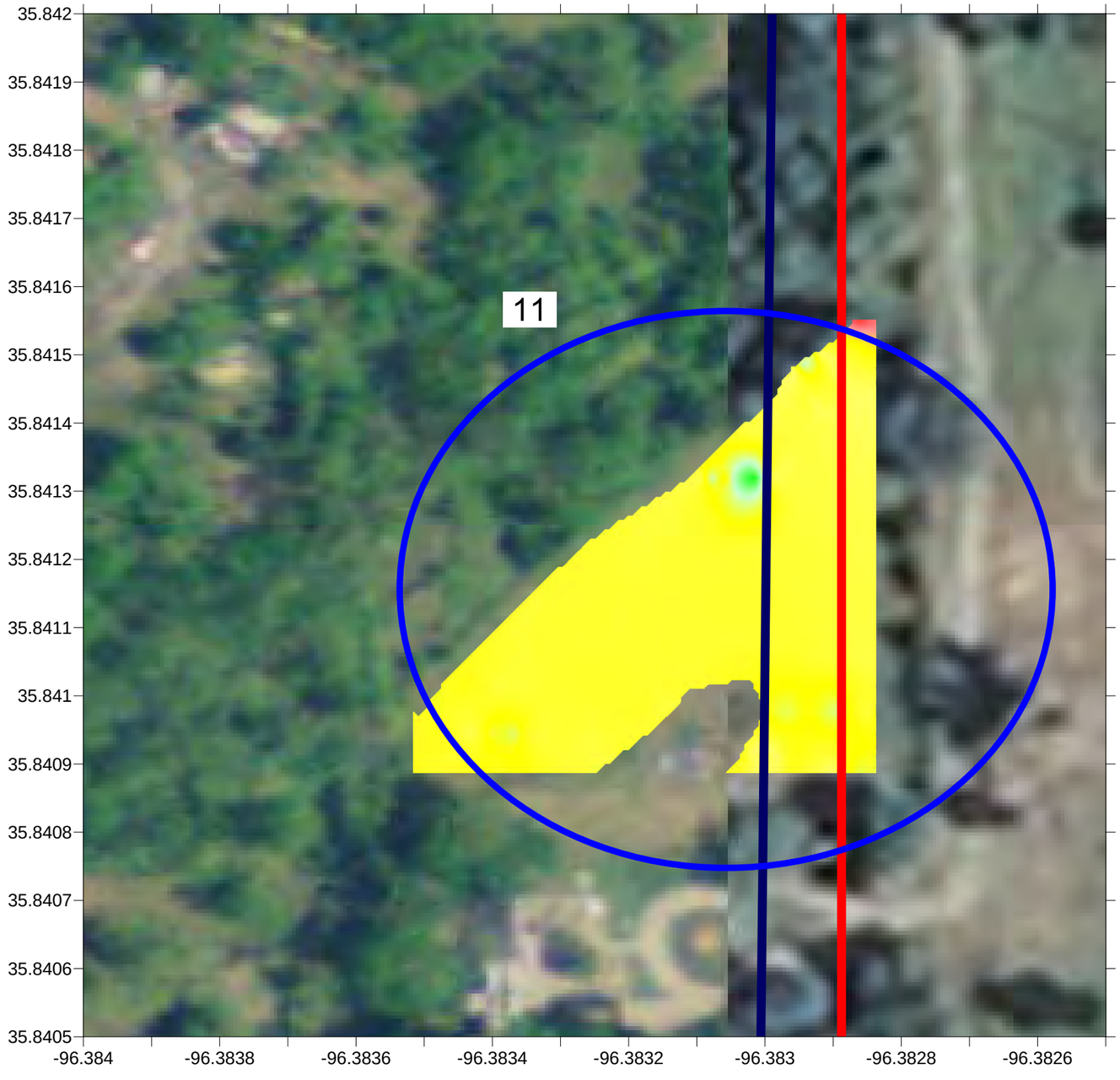
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

N
W E
S

015668

Figure 54
EM31 Conductivity Results
Investigation Area 11

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Inphase (ppt)

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

N

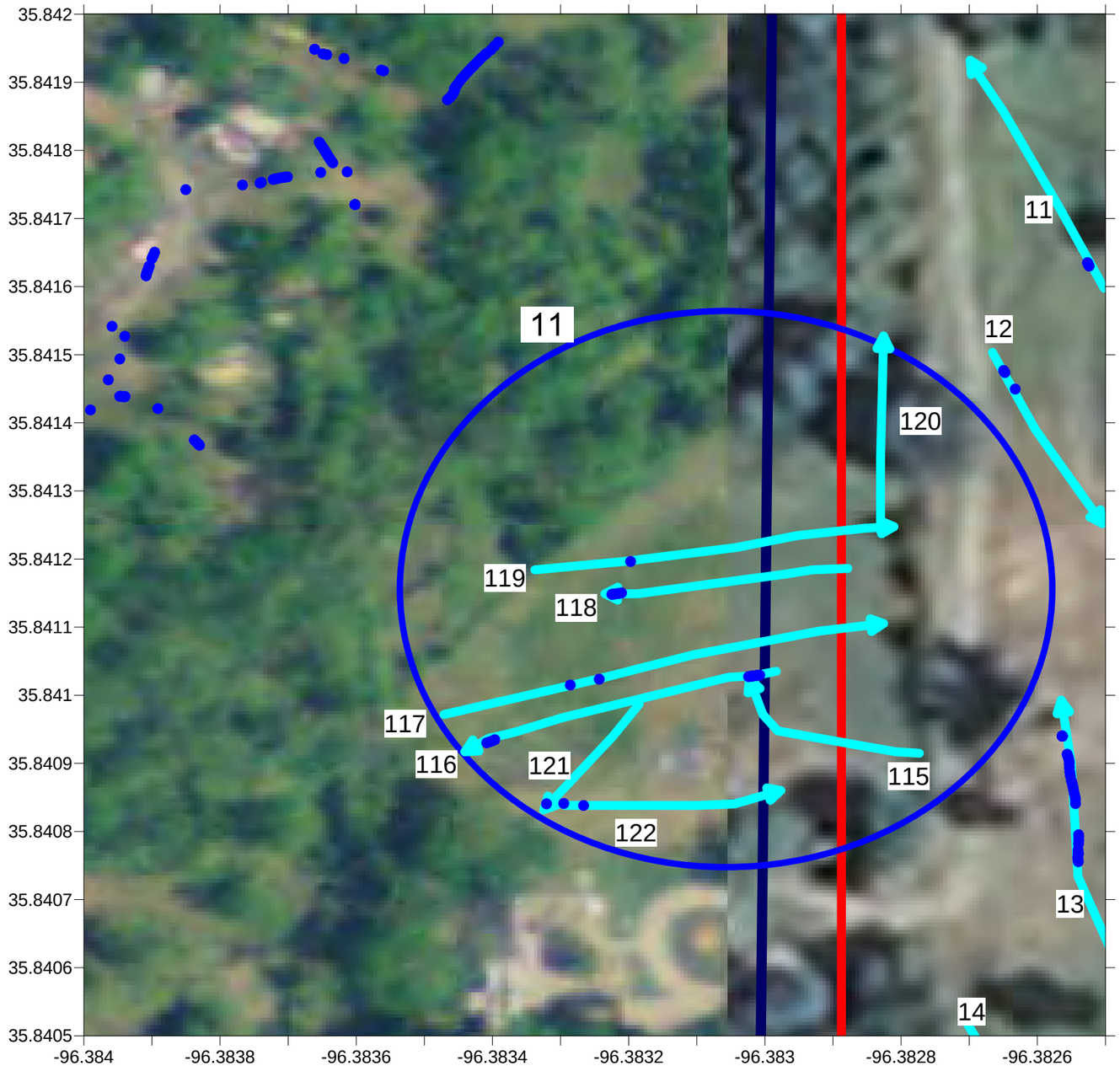
W E

S

015669

Figure 55
EM31 Inphase Results
Investigation Area 11

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

GPR Anomaly Location

66 Location of GPR Profile With Direction of Travel And Identifier

N W E S

015670

Figure 56
Locations of GPR Traverses and Anomalies
Investigation Area 11

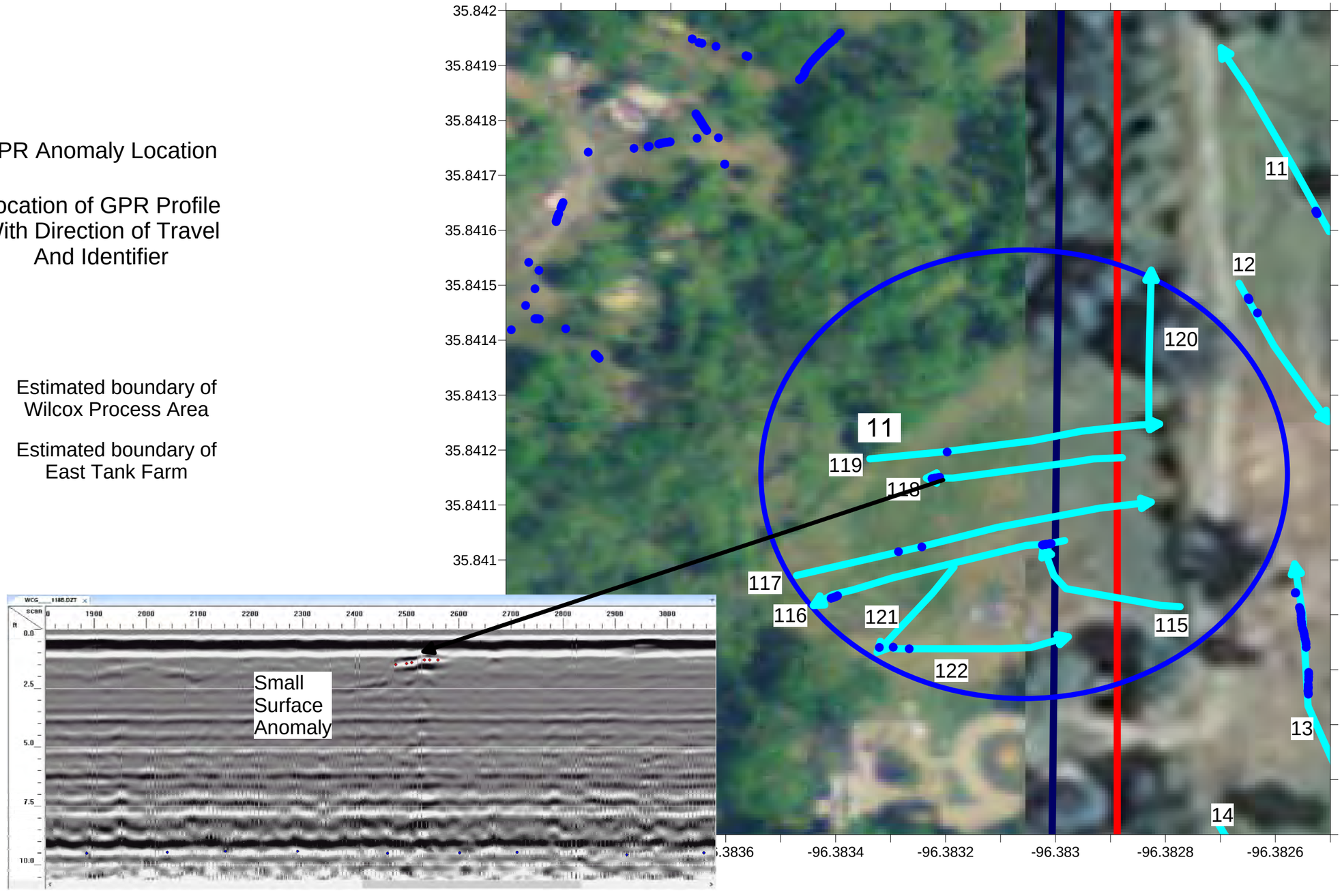
Coordinates are presented in Latitude/Longitude

GPR Anomaly Location

66 Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

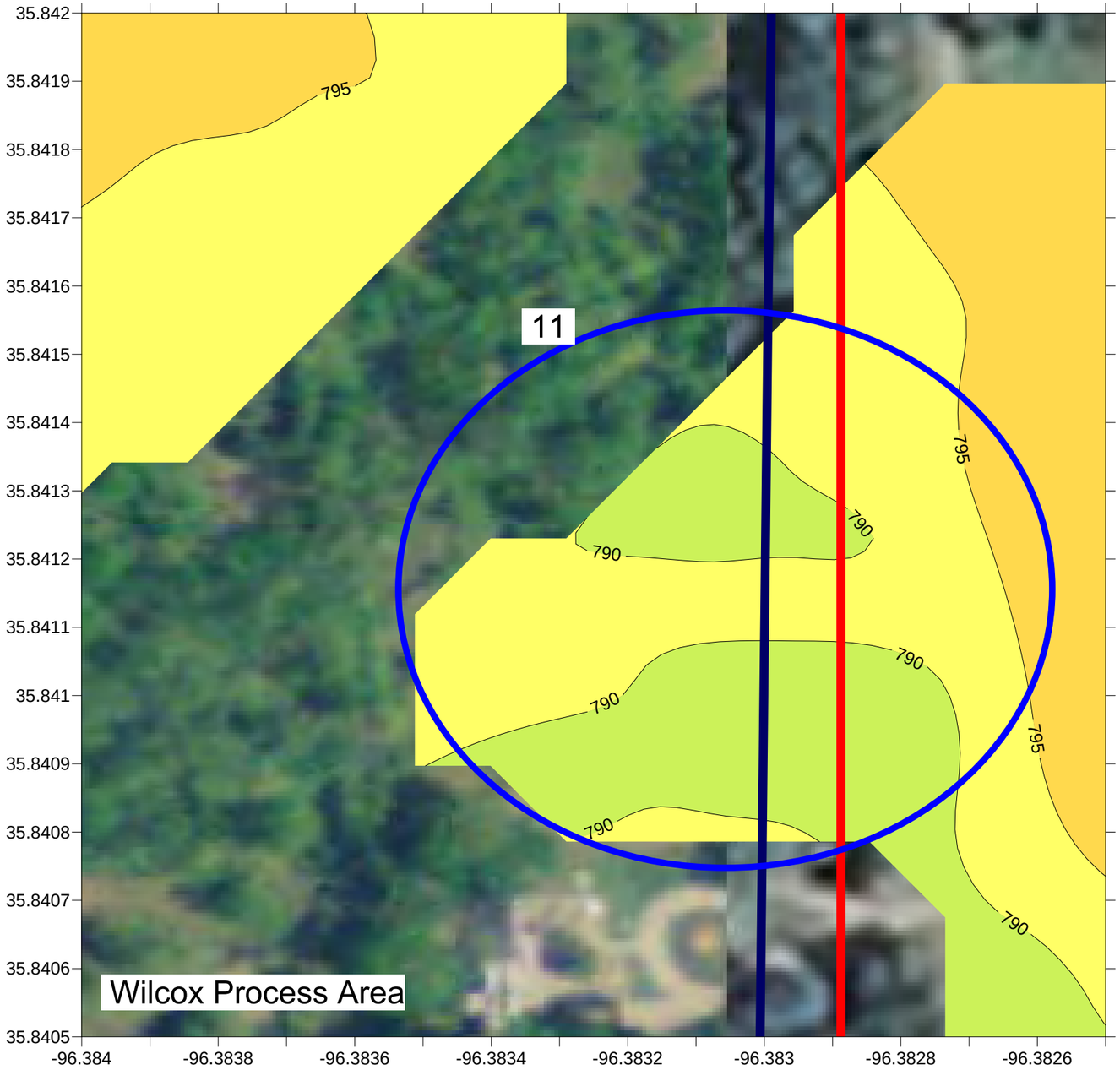


N
W E
S

015671

Figure 57
GPR Profiles
Investigation Area 11

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

N

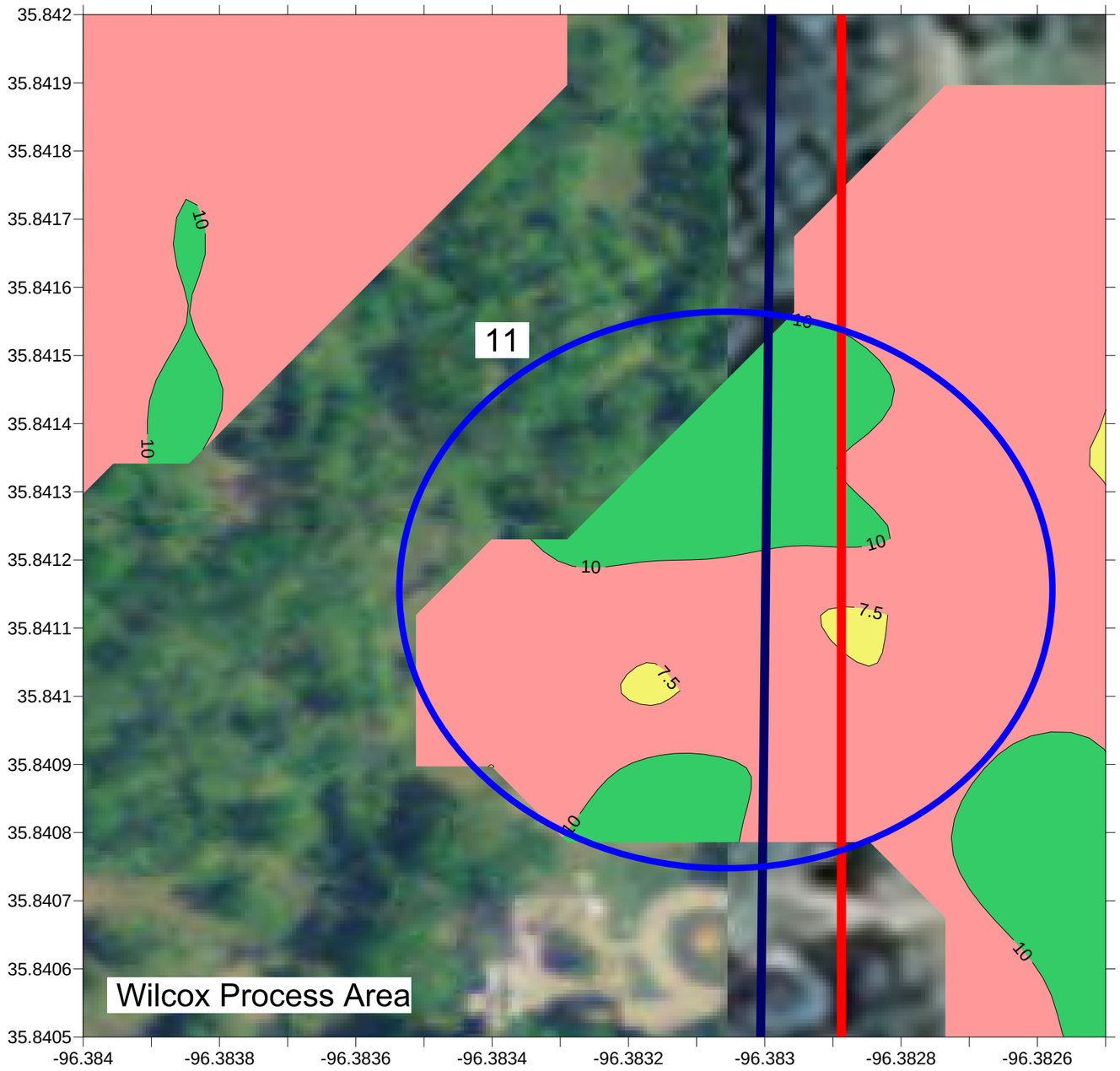
W E

S

015672

Figure 58
Bedrock Elevation
Investigation Area 11

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Soil Thickness (Feet)

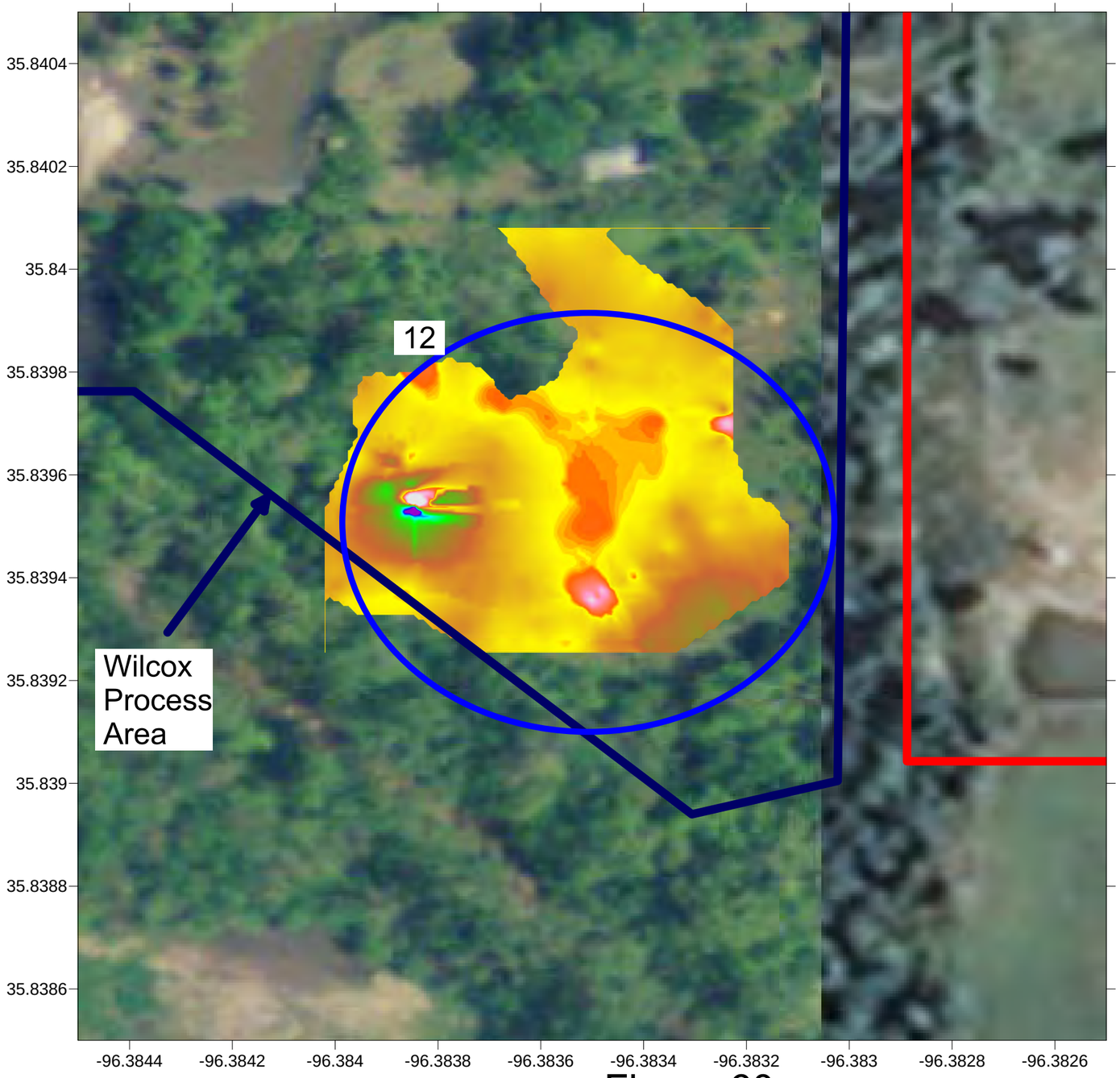
0 2.5 5 7.5 10 15 20

N
W E
S

015673

Figure 59
Soil Thickness
Investigation Area 11

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Conductivity (mmhos/m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

N

W E

S

015674

Figure 60
EM31 Conductivity Results
Investigation Area 12

Coordinates are presented in Latitude/Longitude

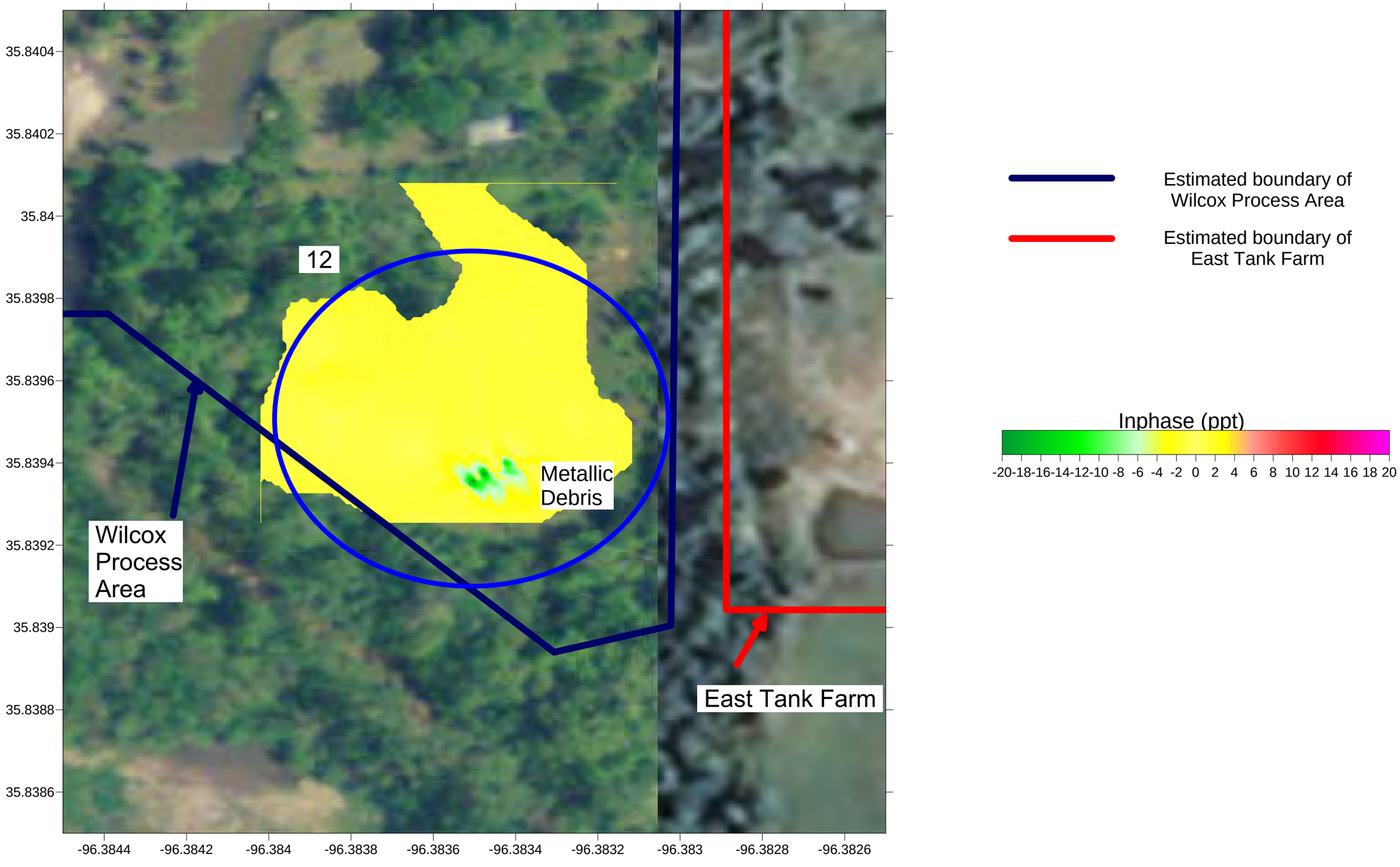
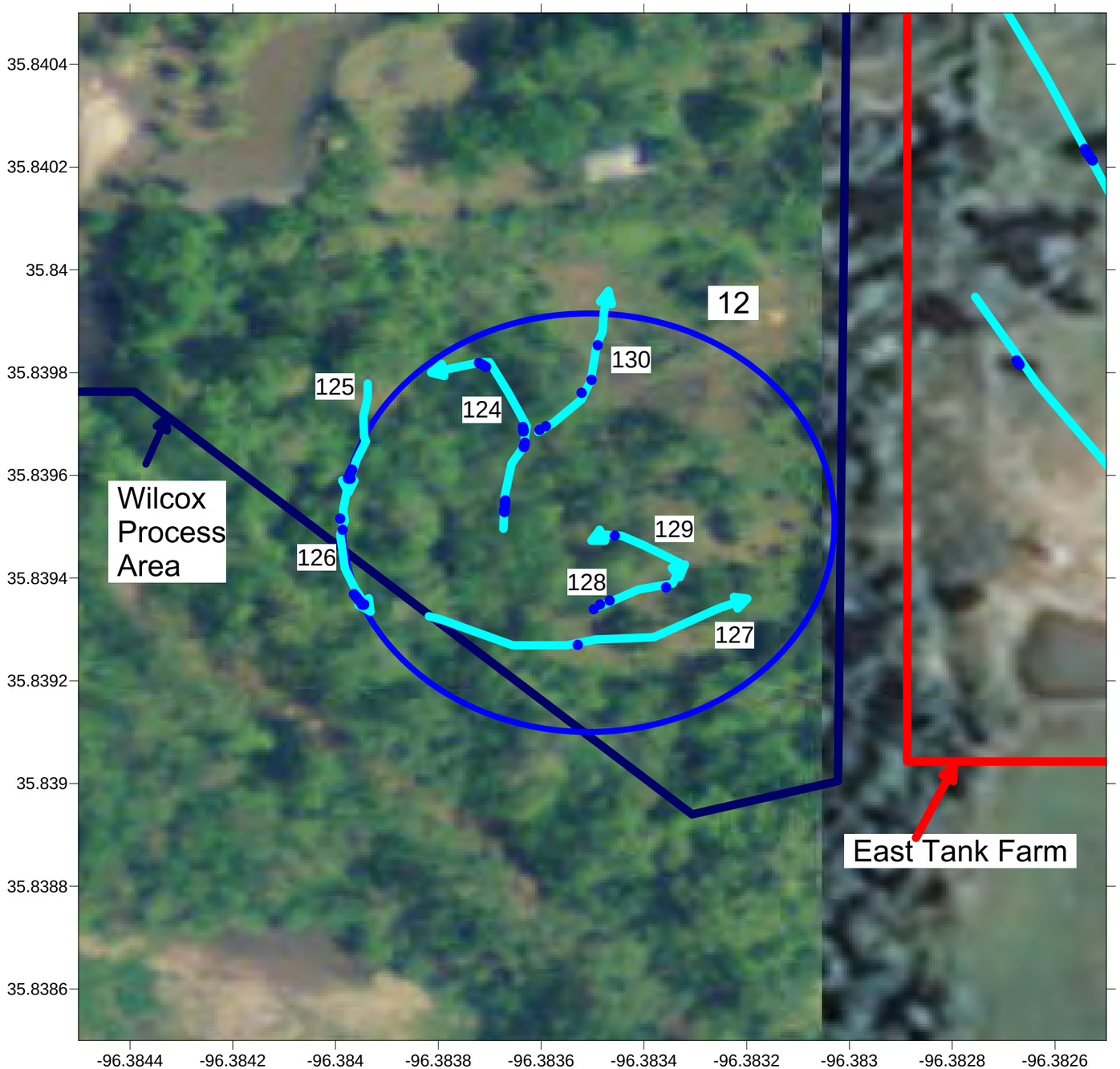


Figure 61
EM31 Inphase Results
Investigation Area 12

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

GPR Anomaly Location

66 Location of GPR Profile With Direction of Travel And Identifier

N
W E
S

015676

Figure 62
Locations of GPR Traverses and Anomalies
Investigation Area 12

Coordinates are presented in Latitude/Longitude

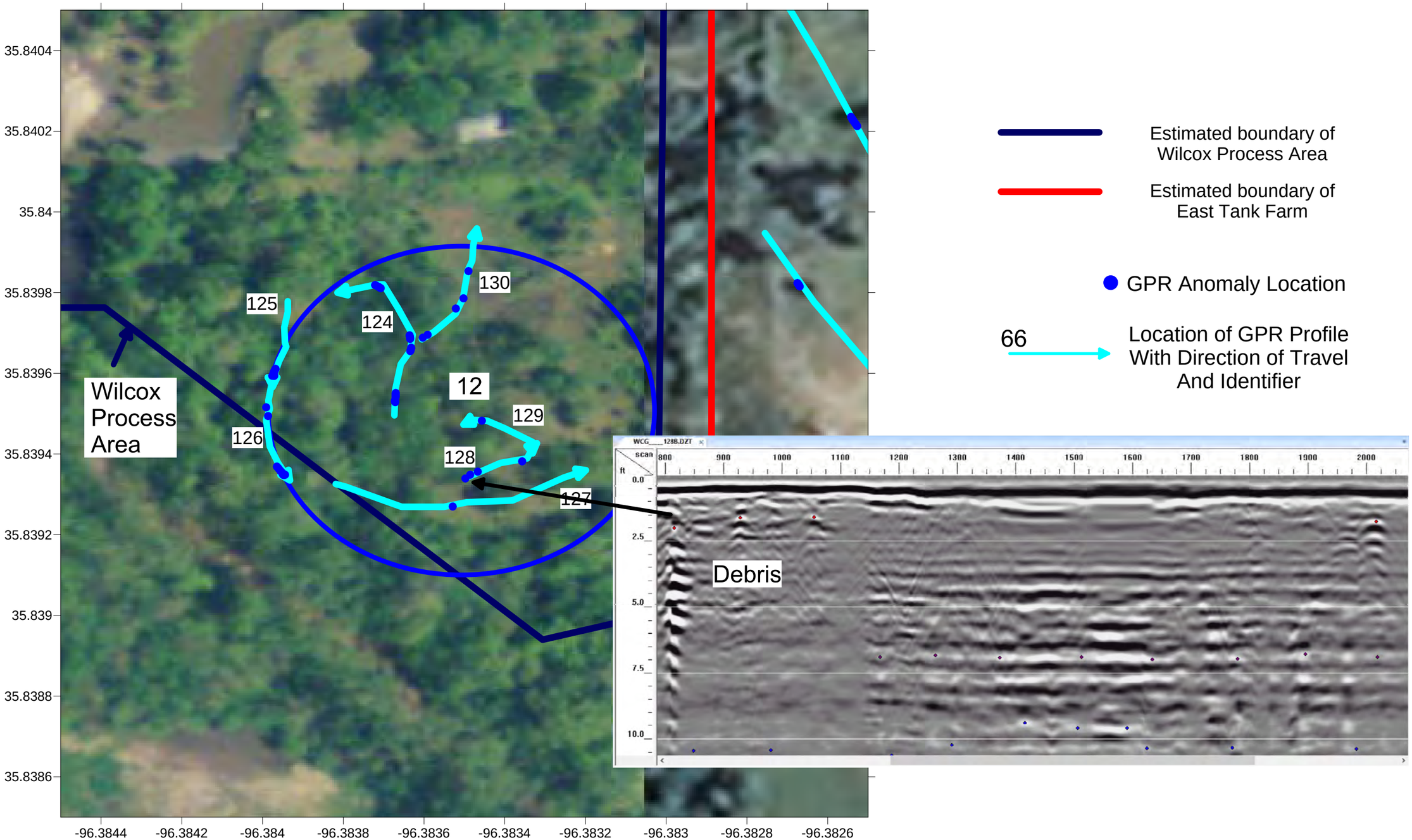
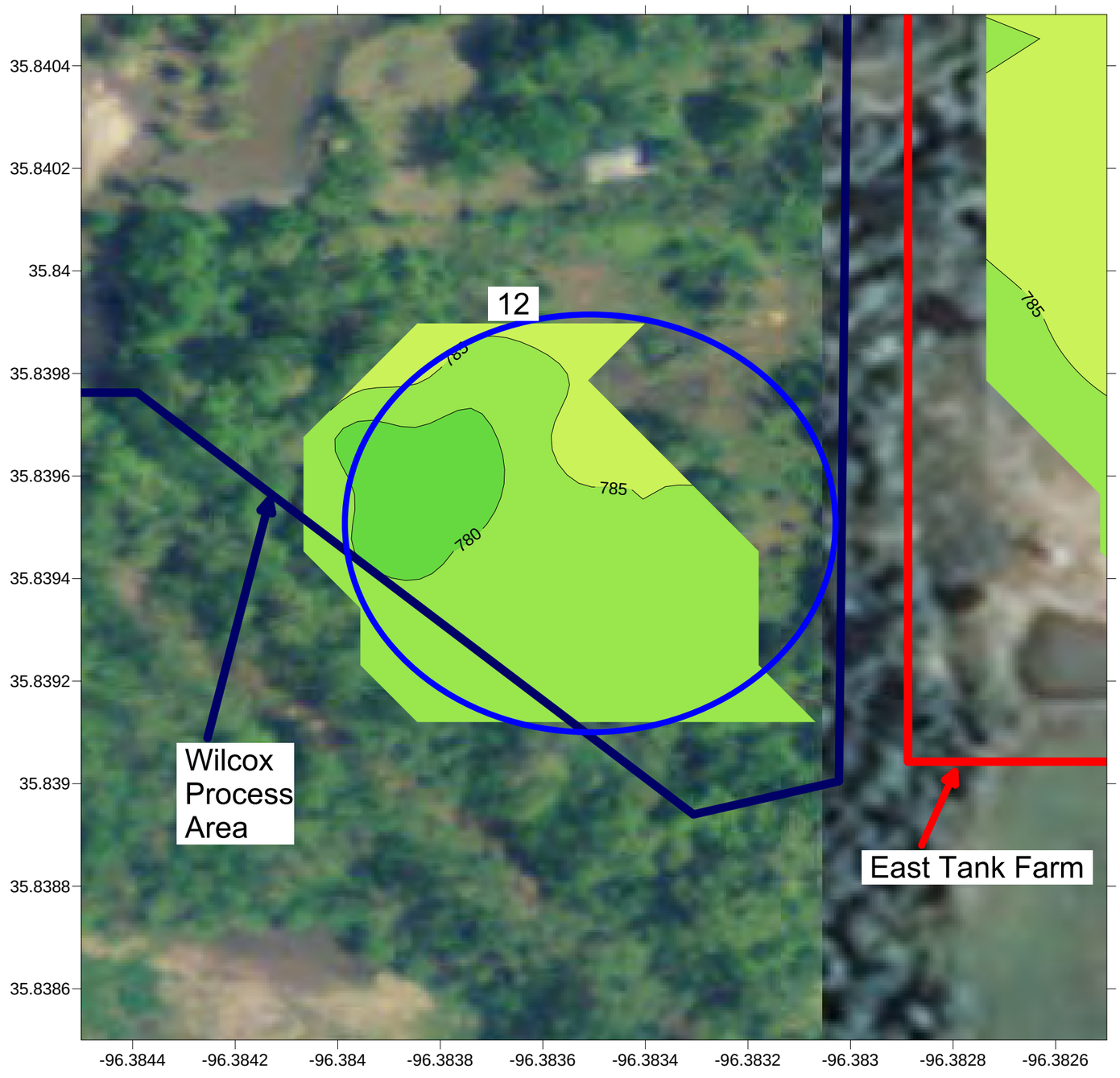


Figure 63
GPR Profiles
Investigation Area 12

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Bedrock Elevation (Feet AMSL)

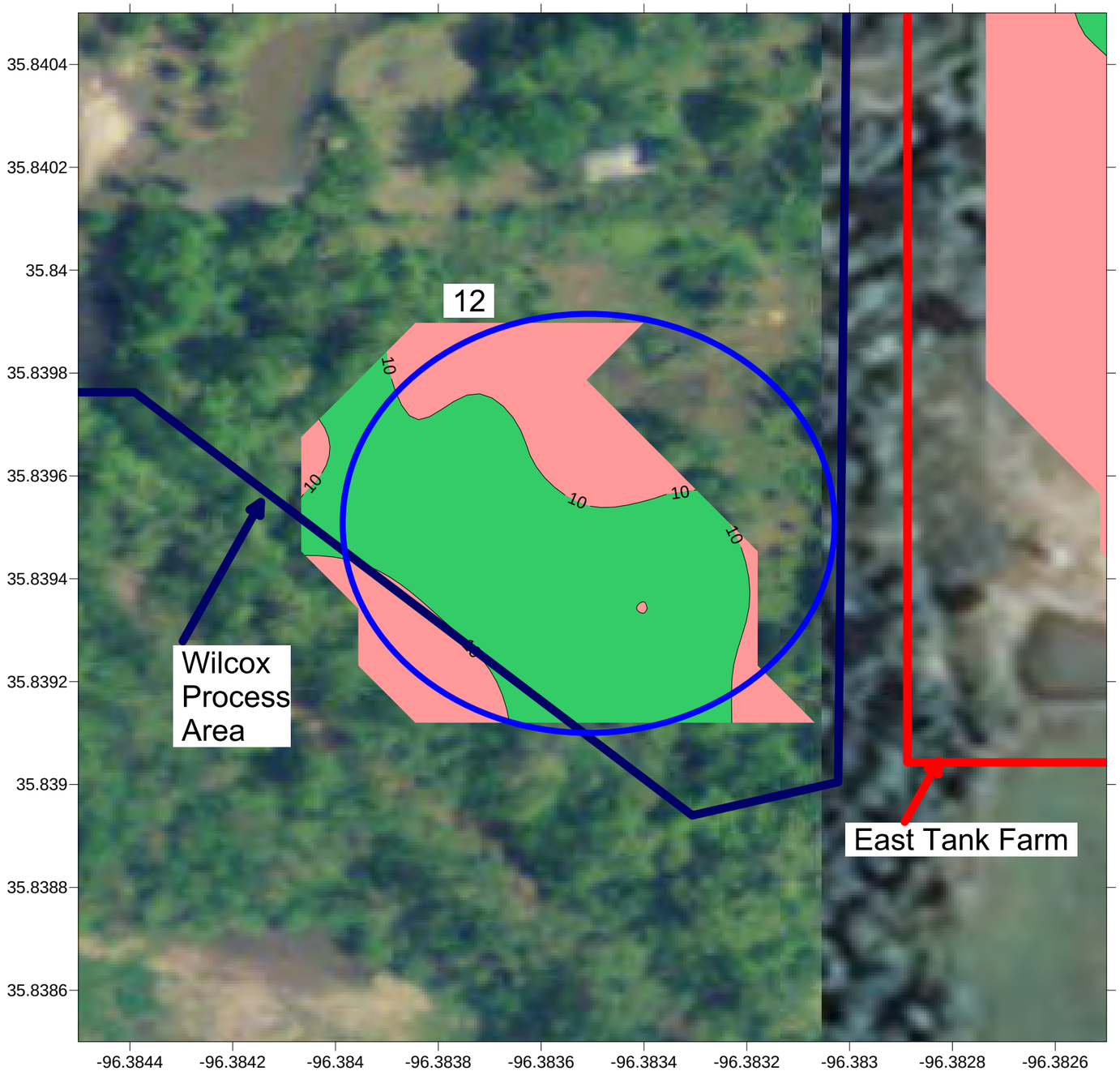
750 760 770 780 790 800 810 820 830 840 850

N
W E
S

015678

Figure 64
Bedrock Elevation
Investigation Area 12

Coordinates are presented in Latitude/Longitude



Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Soil Thickness (Feet)

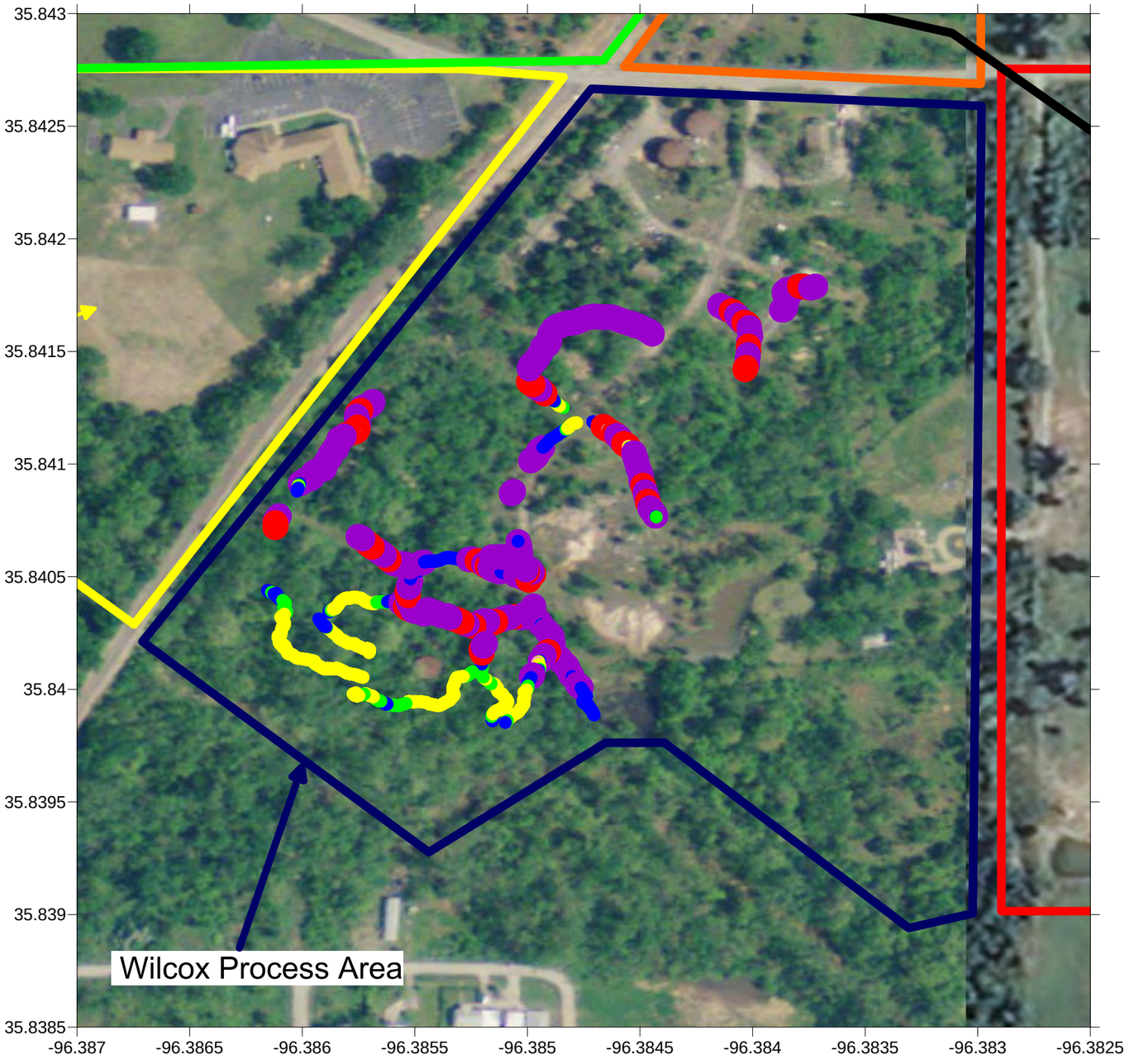
0 2.5 5 7.5 10 15 20

N
W E
S

015679

Figure 65
Soil Thickness
Investigation Area 12

Coordinates are presented in Latitude/Longitude



Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Conductivity (mmhosm)

- 0 to 20
- 20 to 40
- 40 to 50
- 50 to 100
- 100 to 204.8
- -200 to 0

N

W E

S

015680

Figure 66
Overview EM31 Conductivity
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude

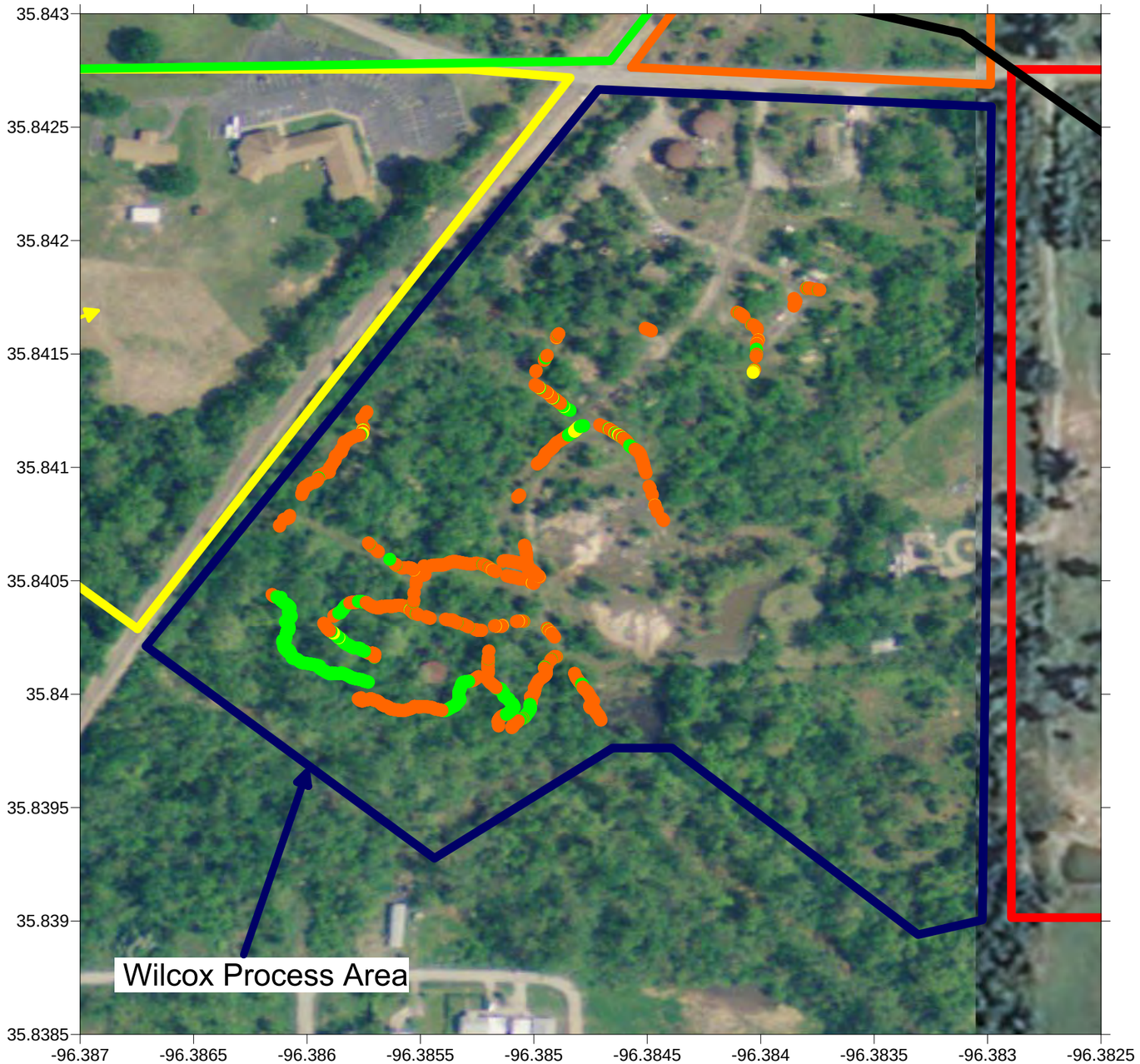
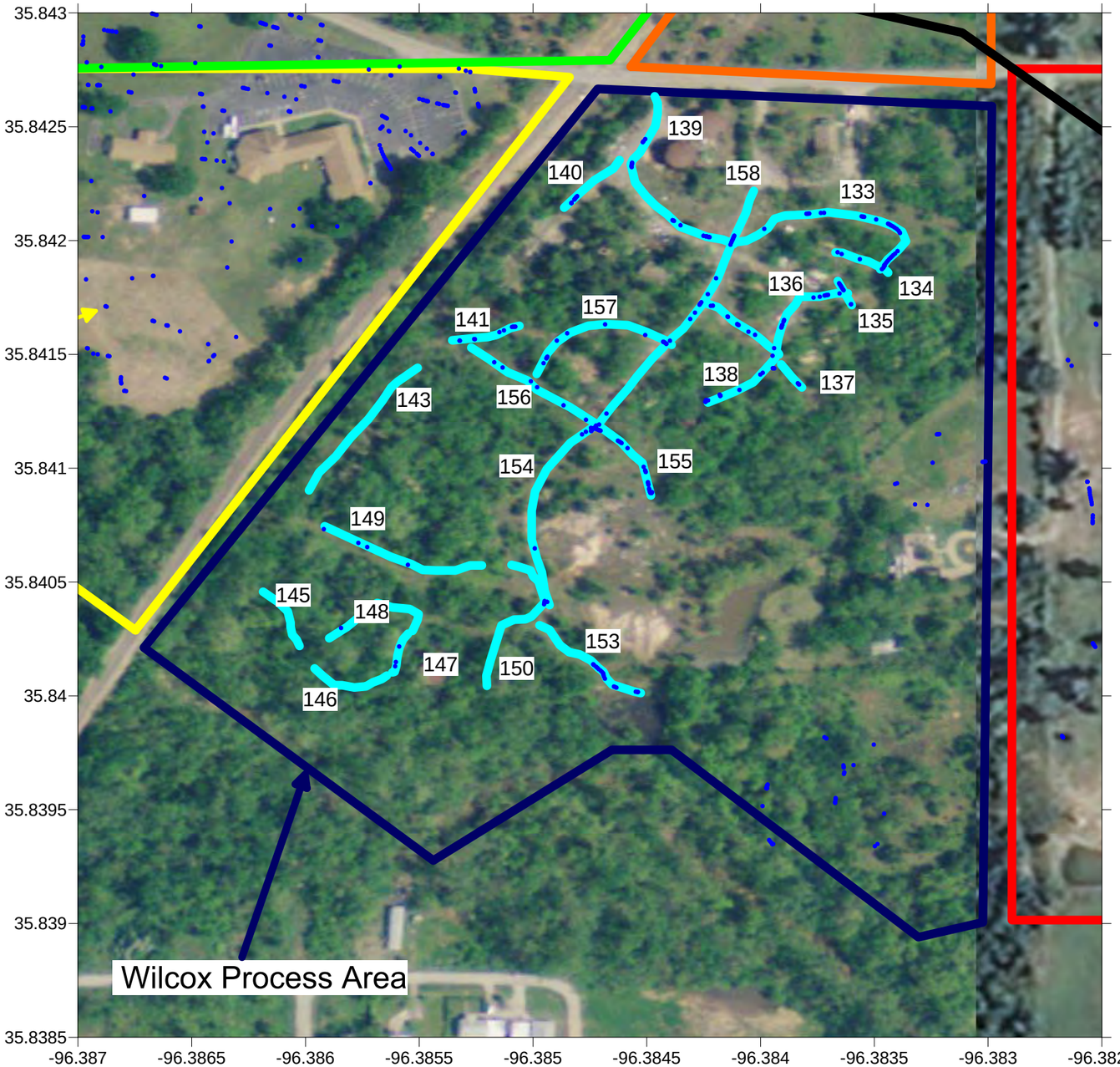


Figure 67
Overview of EM31 Inphase
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

66 Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

N W E S

015682

Figure 68
Locations of GPR Traverses and Anomalies
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude

Estimated boundary of Lorraine Process Area

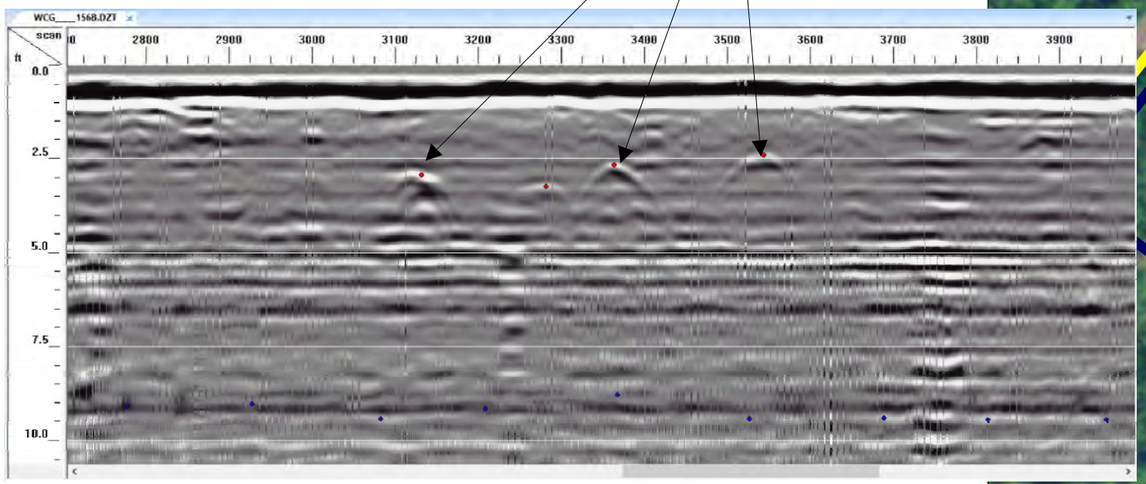
Estimated boundary of Wilcox Process Area

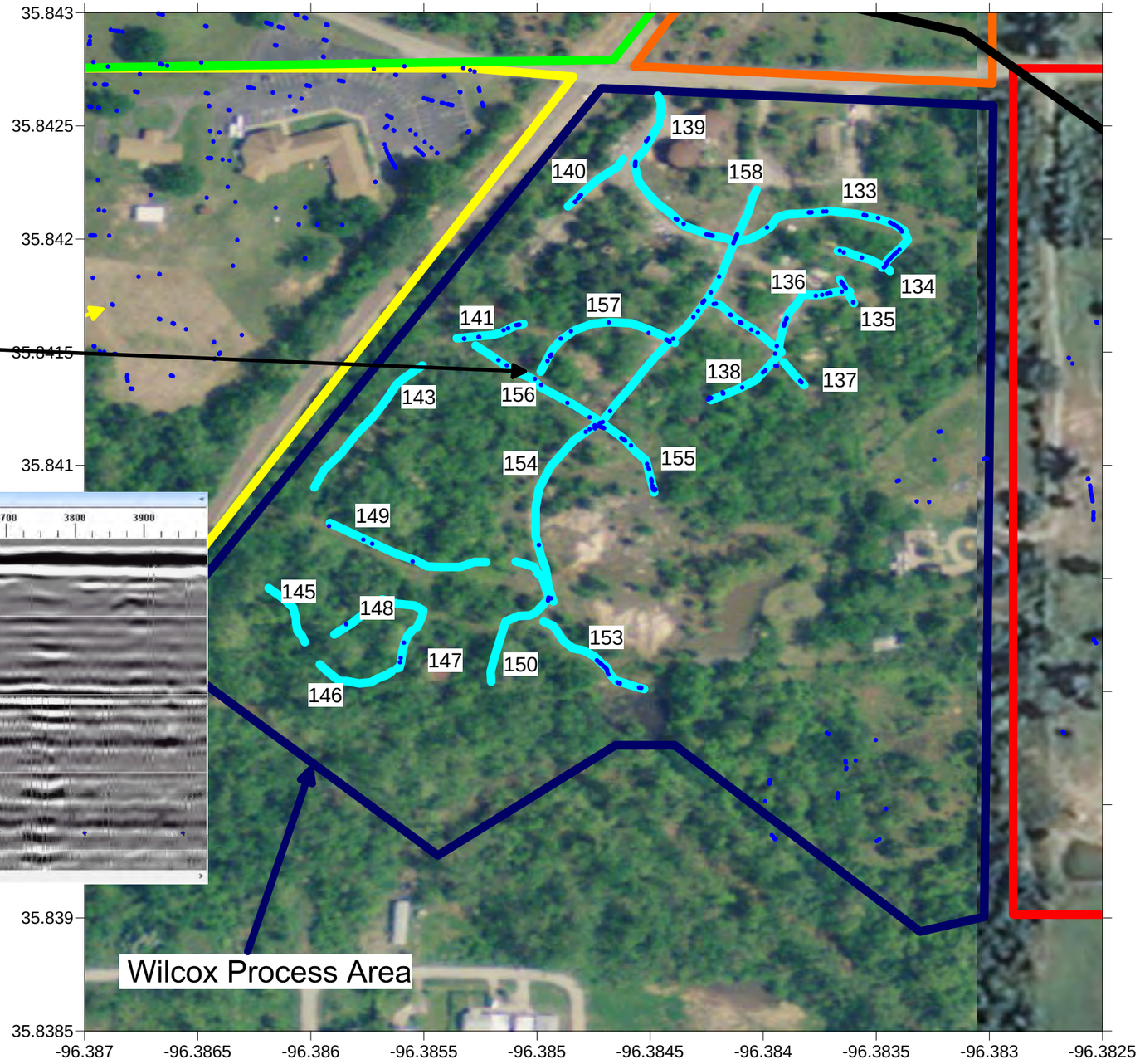
Estimated boundary of East Tank Farm

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Pipe-like Anomalies





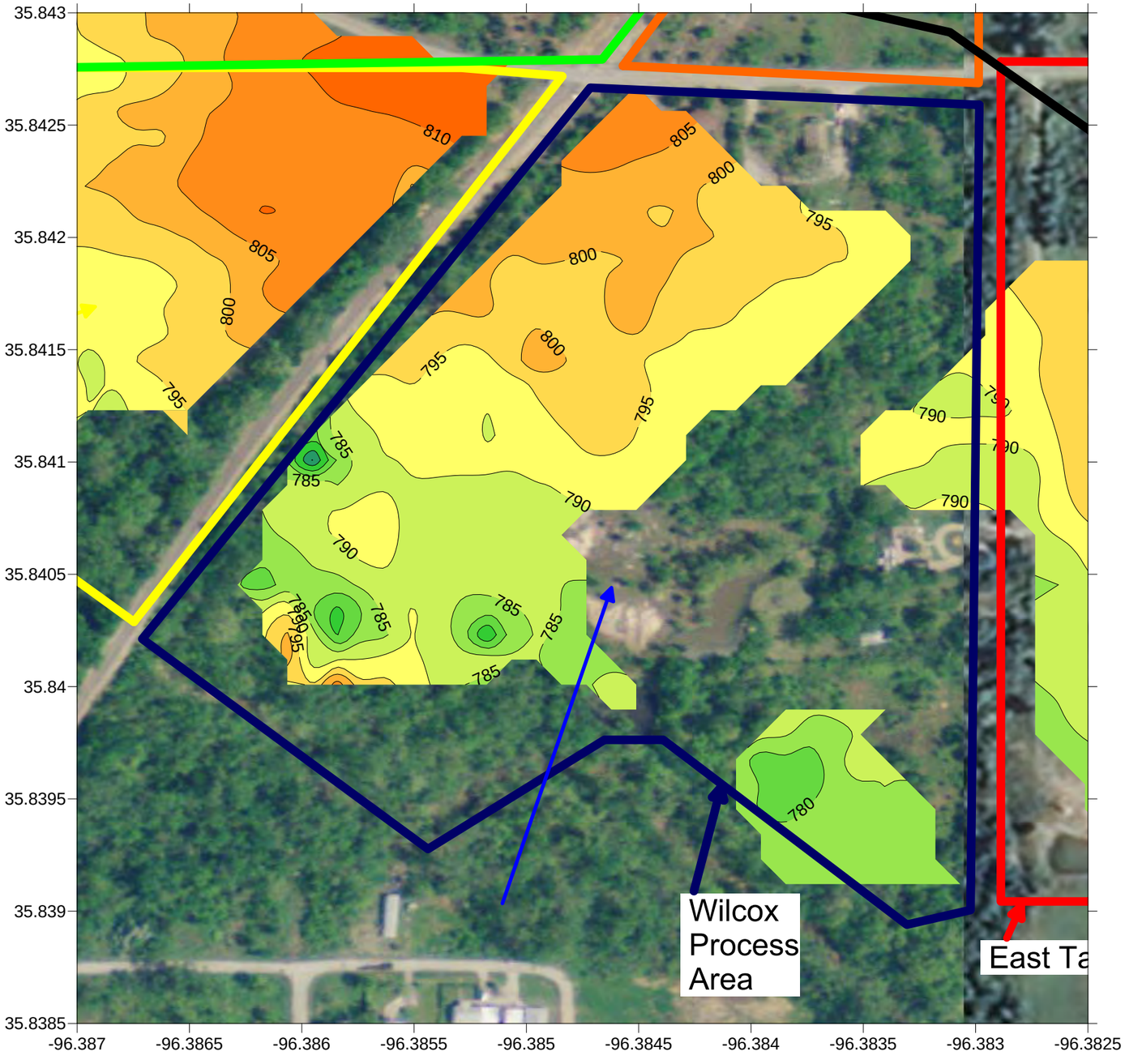
GPR Anomaly Location

66 → Location of GPR Profile With Direction of Travel And Identifier

N W E S

Figure 69
GPR Profiles
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude



Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

N

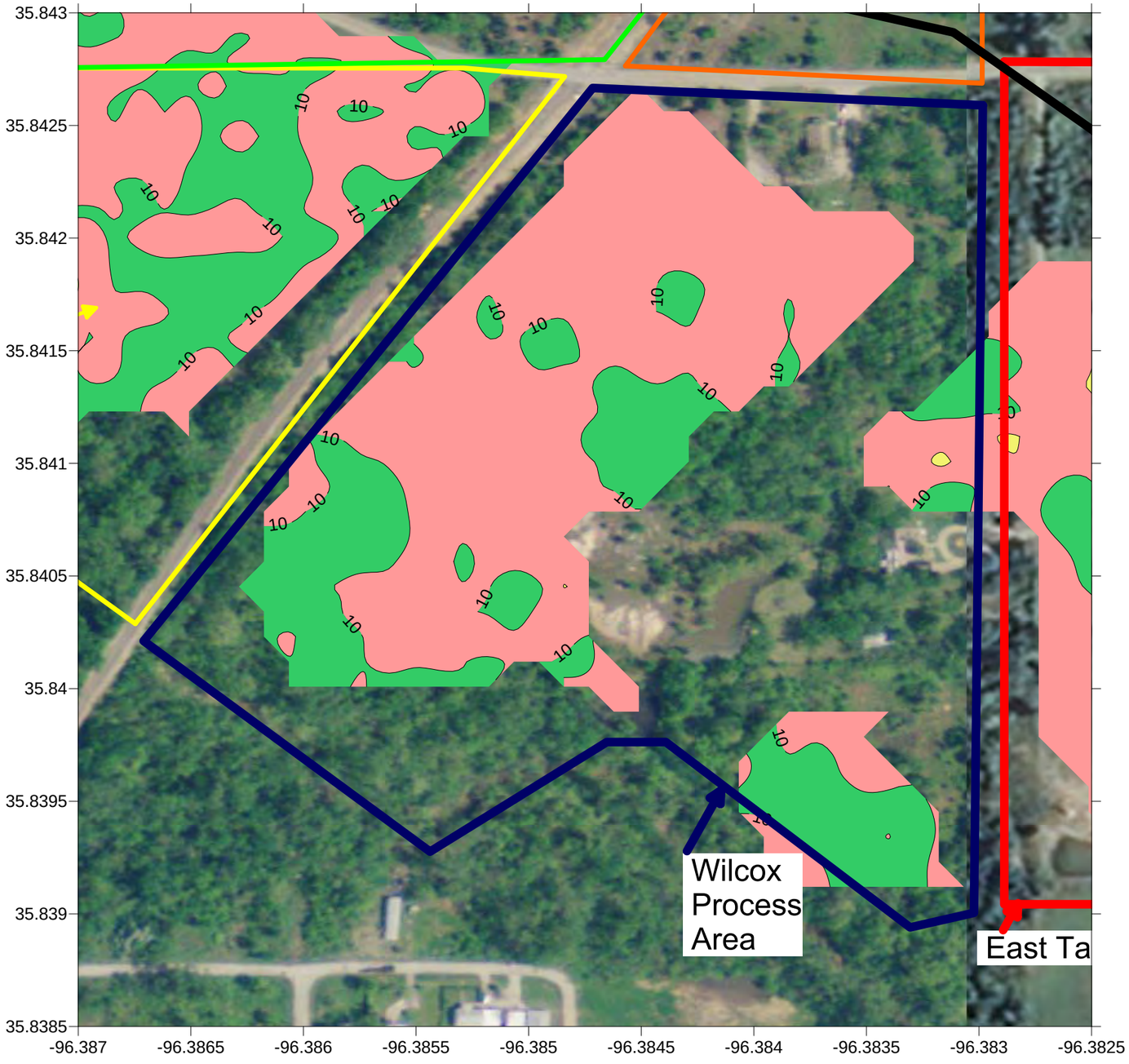
W E

S

015684

Figure 70
Bedrock Elevation
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude



Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of East Tank Farm

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

N

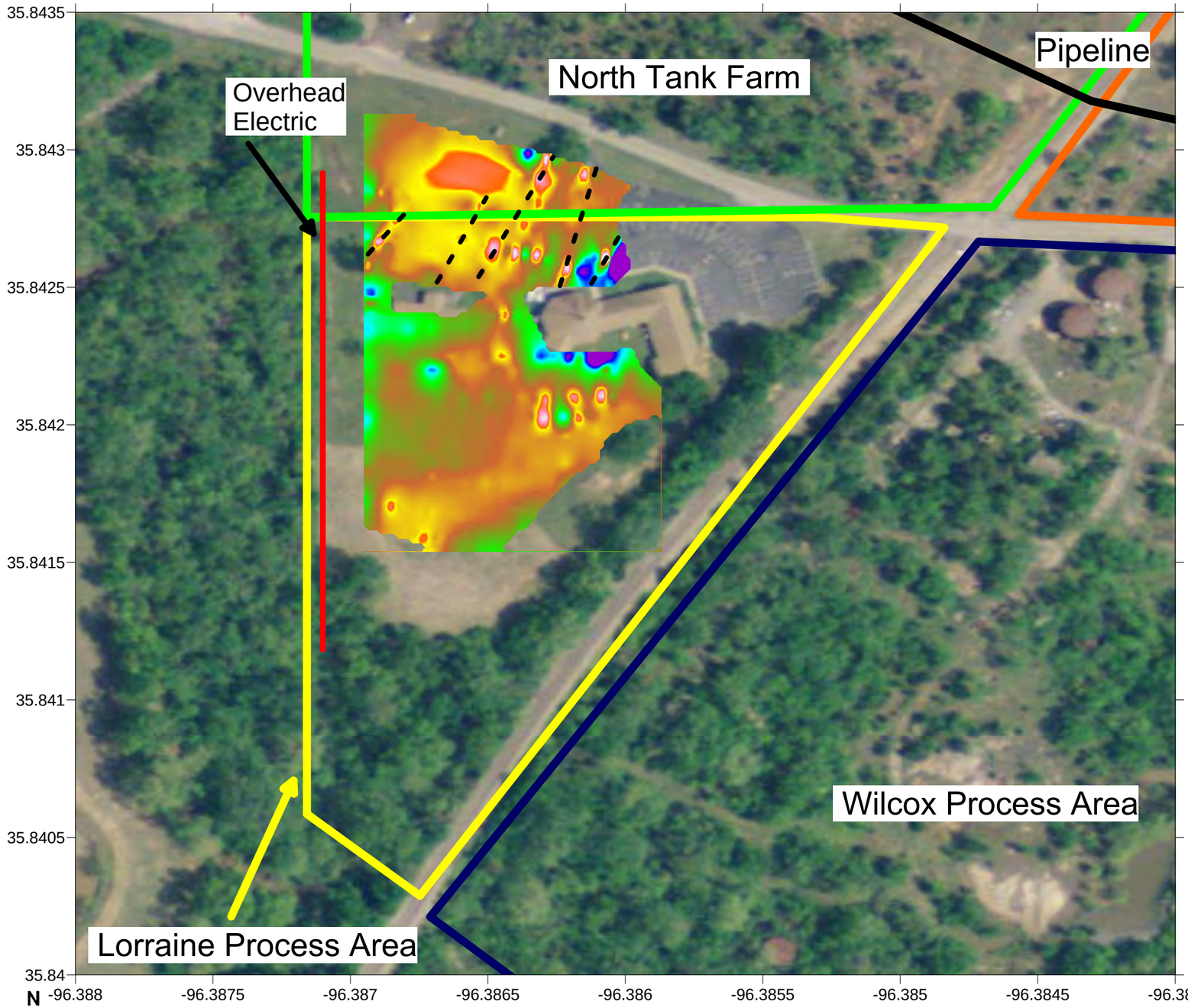
W E

S

015685

Figure 71
Soil Thickness
Wilcox Processing Area

Coordinates are presented in Latitude/Longitude



Conductivity (mmhos/m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Possible Underground Utility

Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

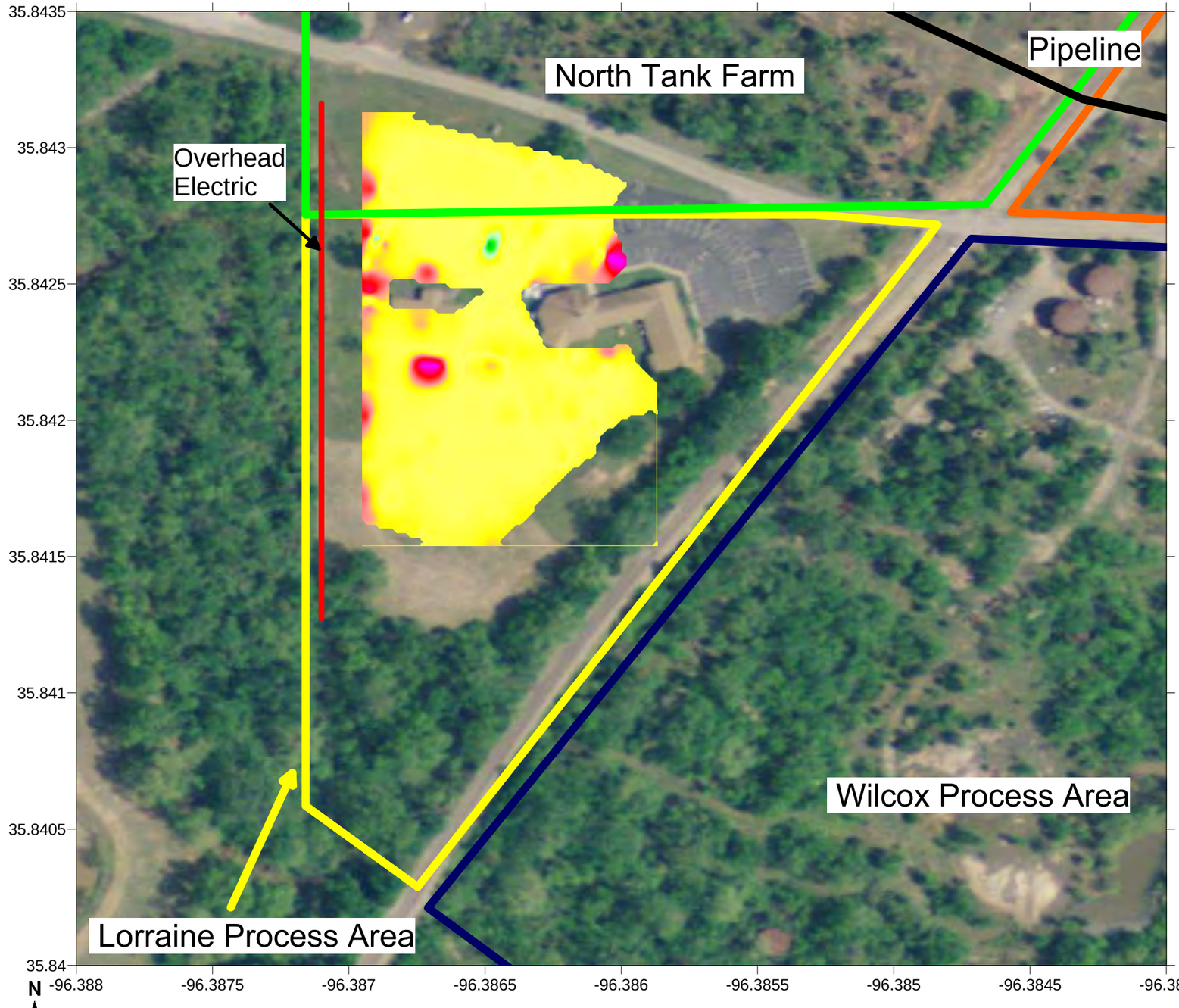
Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Figure 72
Overview EM31 Conductivity Results
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude

015686



Inphase (ppt)

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20

Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

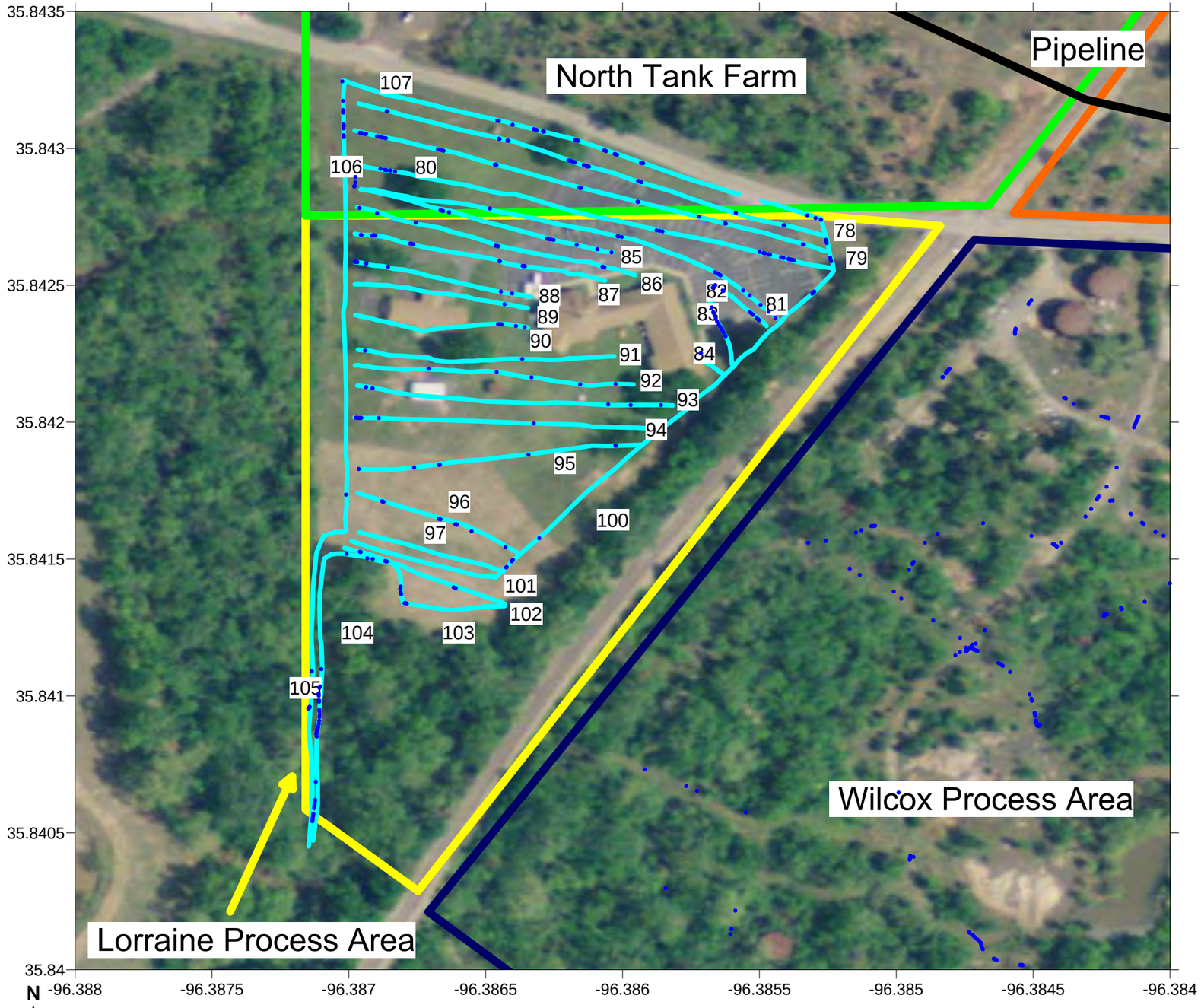
Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

015687

Figure 73
Overview EM31 Inphase Results
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude



GPR Anomaly Location

91 → Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

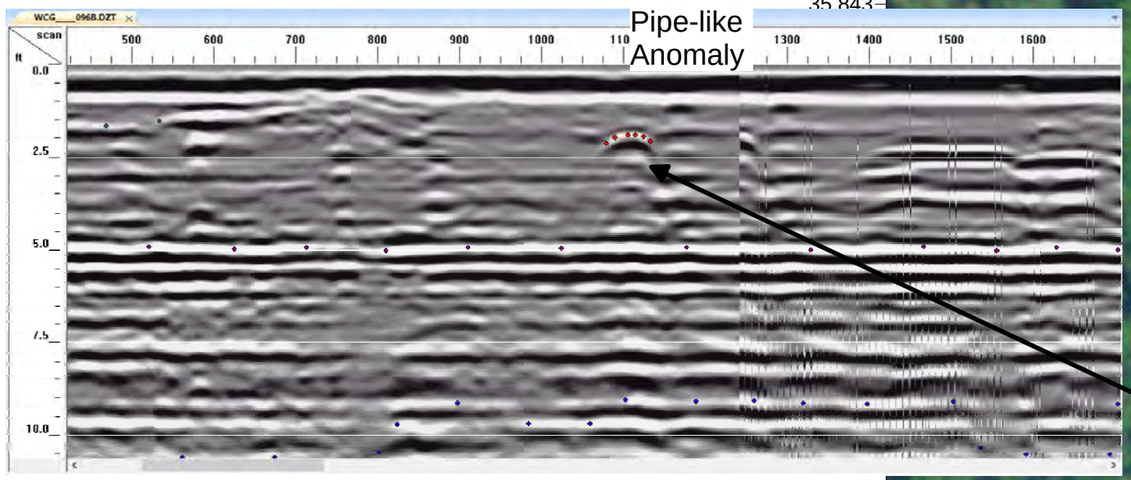
Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Figure 74
Locations of GPR Traverses and Anomalies
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude

015688



Unknown Pipe-like Anomaly

● GPR Anomaly Location

91 → Location of GPR Profile With Direction of Travel And Identifier

Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

N W E S

015689

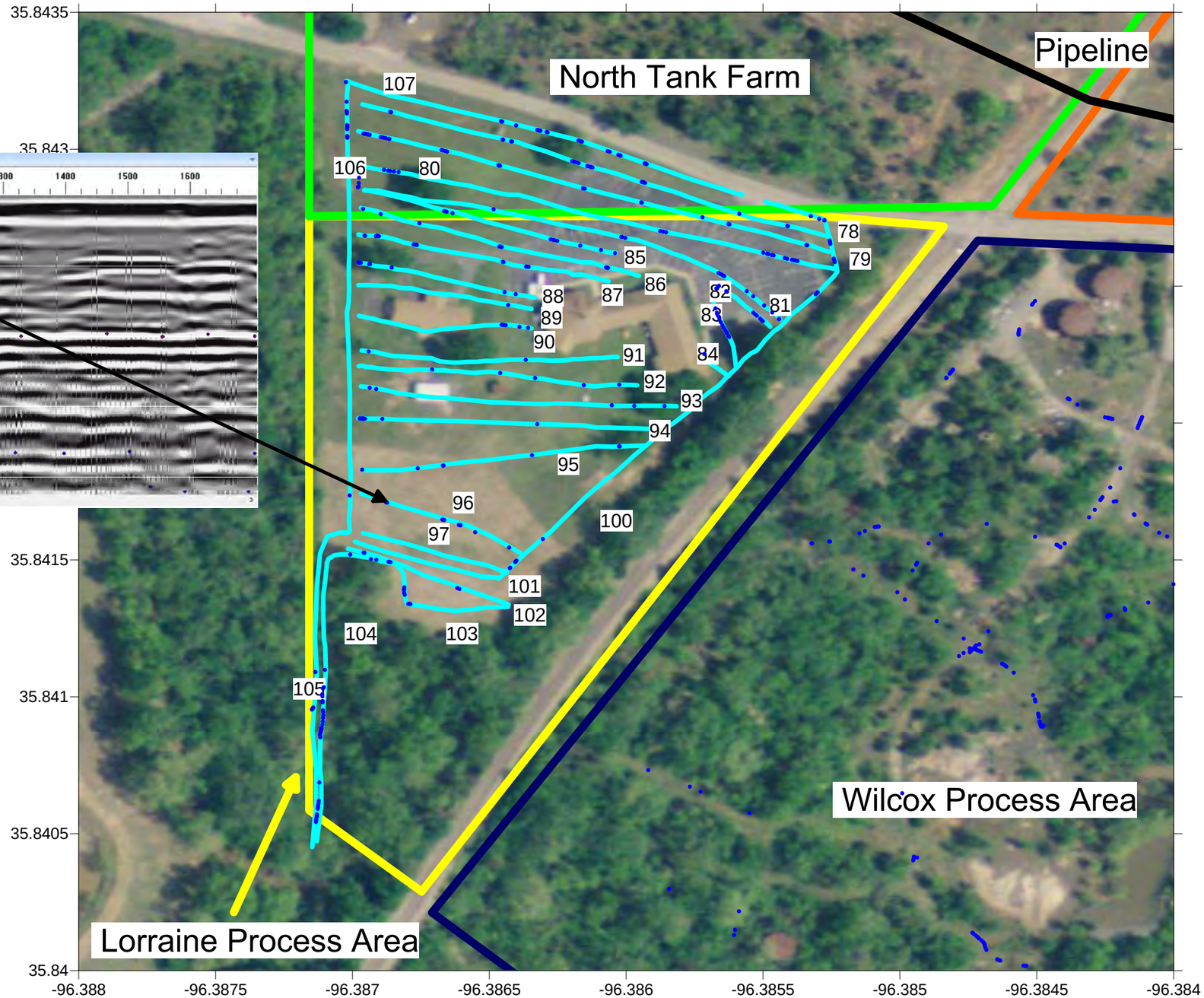
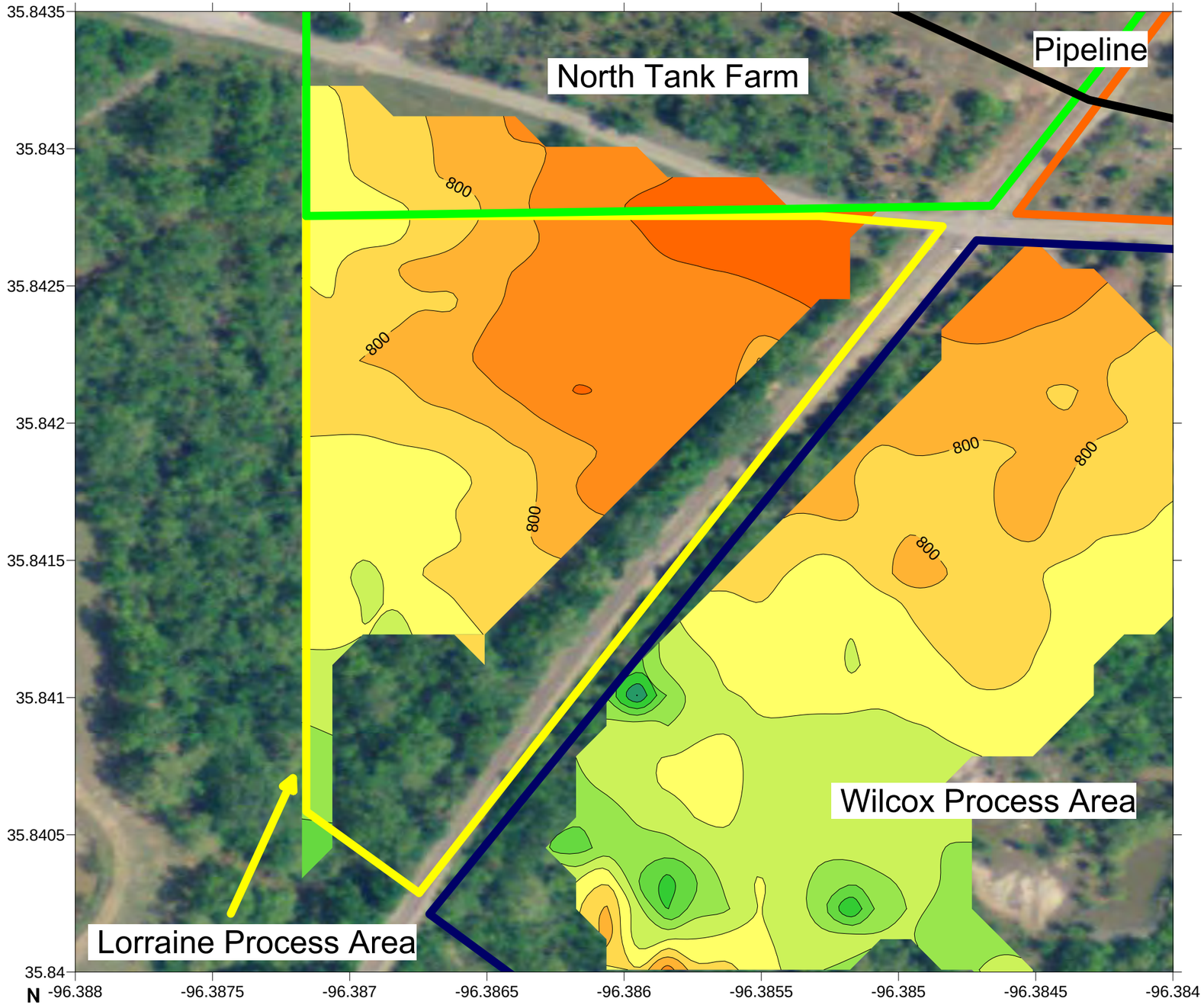


Figure 75
GPR Profiles
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude



Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

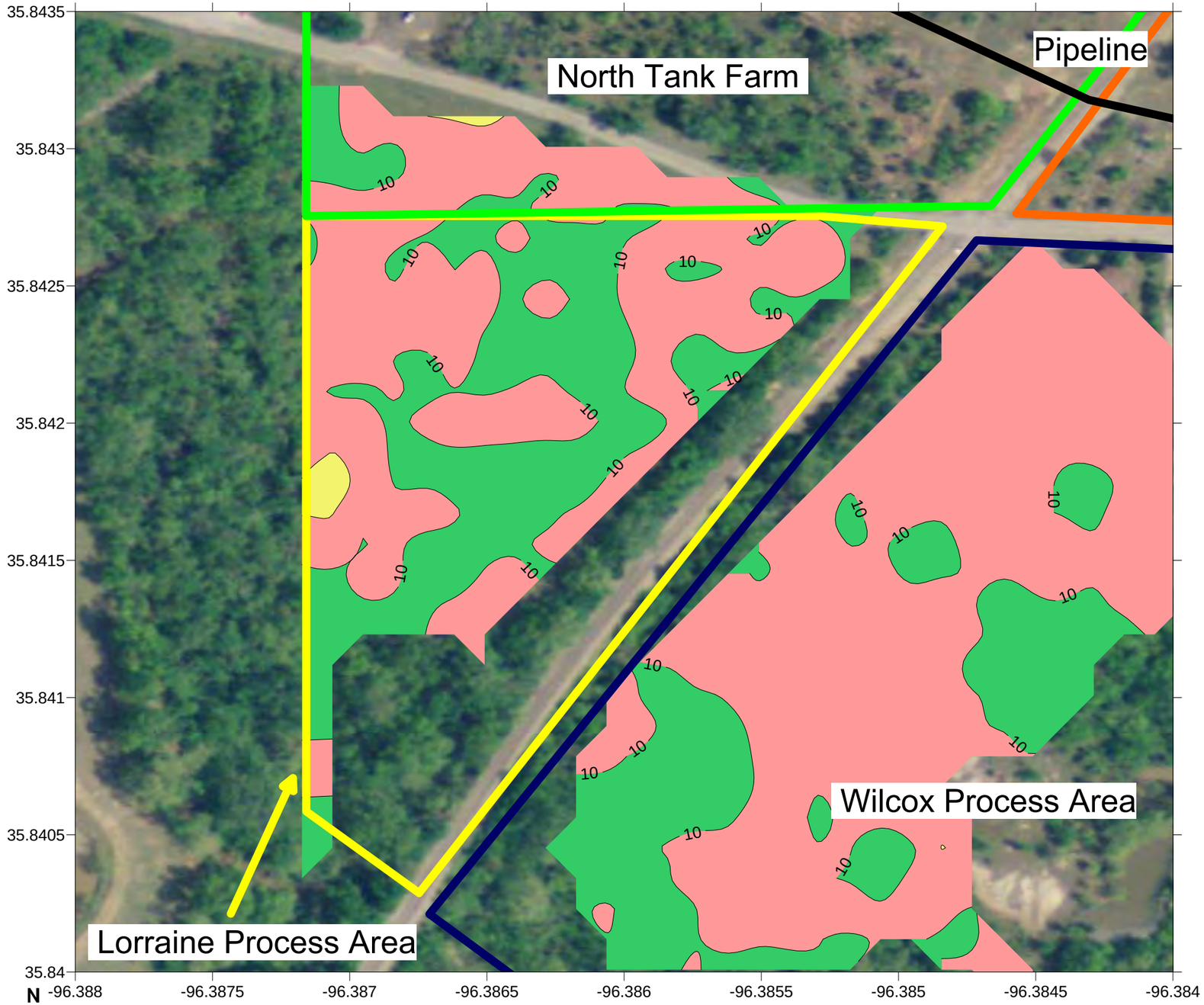
Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

Figure 76
Bedrock Elevation
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude

015690



Estimated boundary of Lorraine Process Area

Estimated boundary of Wilcox Process Area

Estimated boundary of North Tank Farm

Estimated boundary of Loading Dock Area

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

N W E S

015691

Figure 77
Soil Thickness
Lorraine Processing Area

Coordinates are presented in Latitude/Longitude

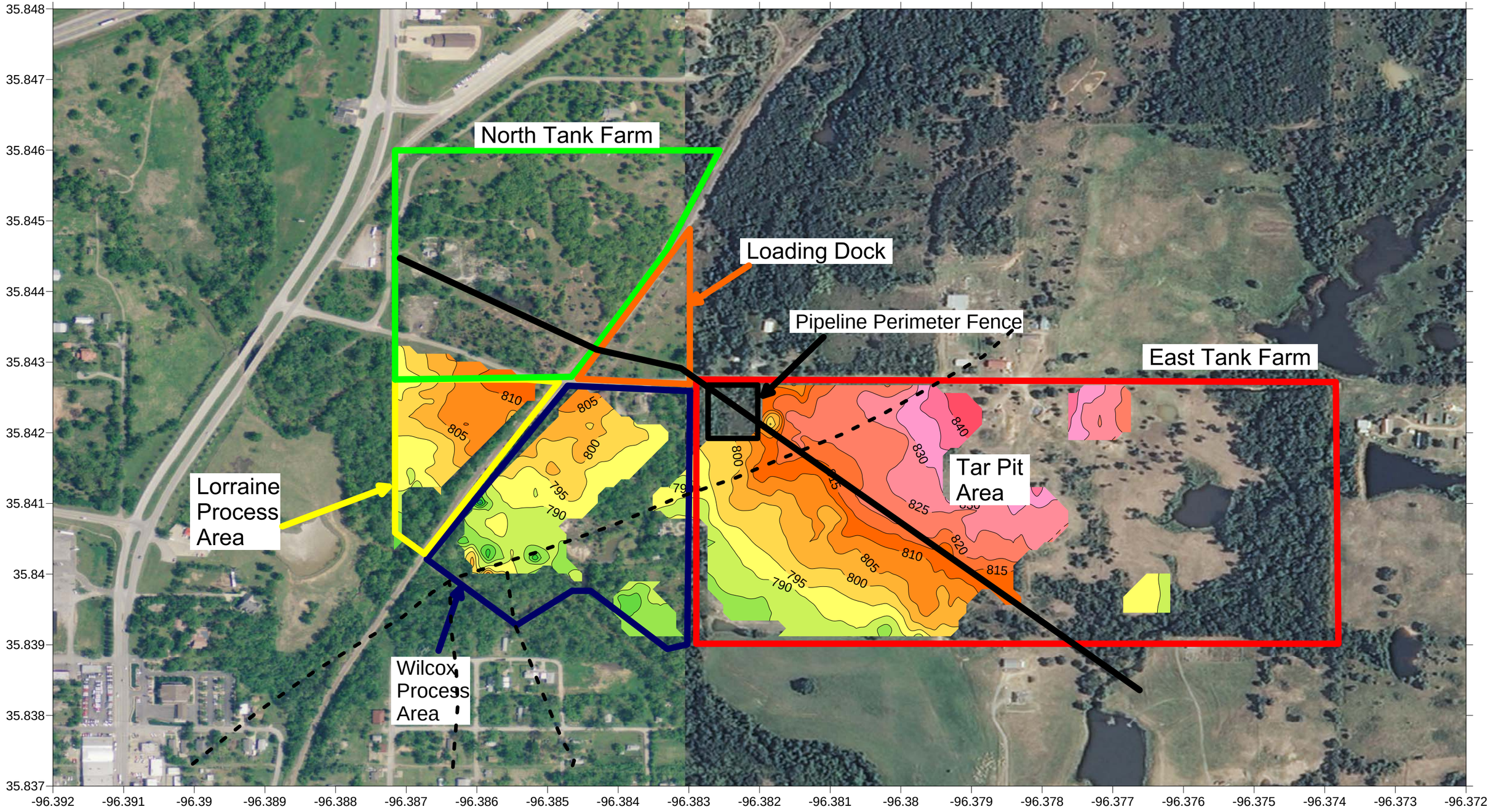
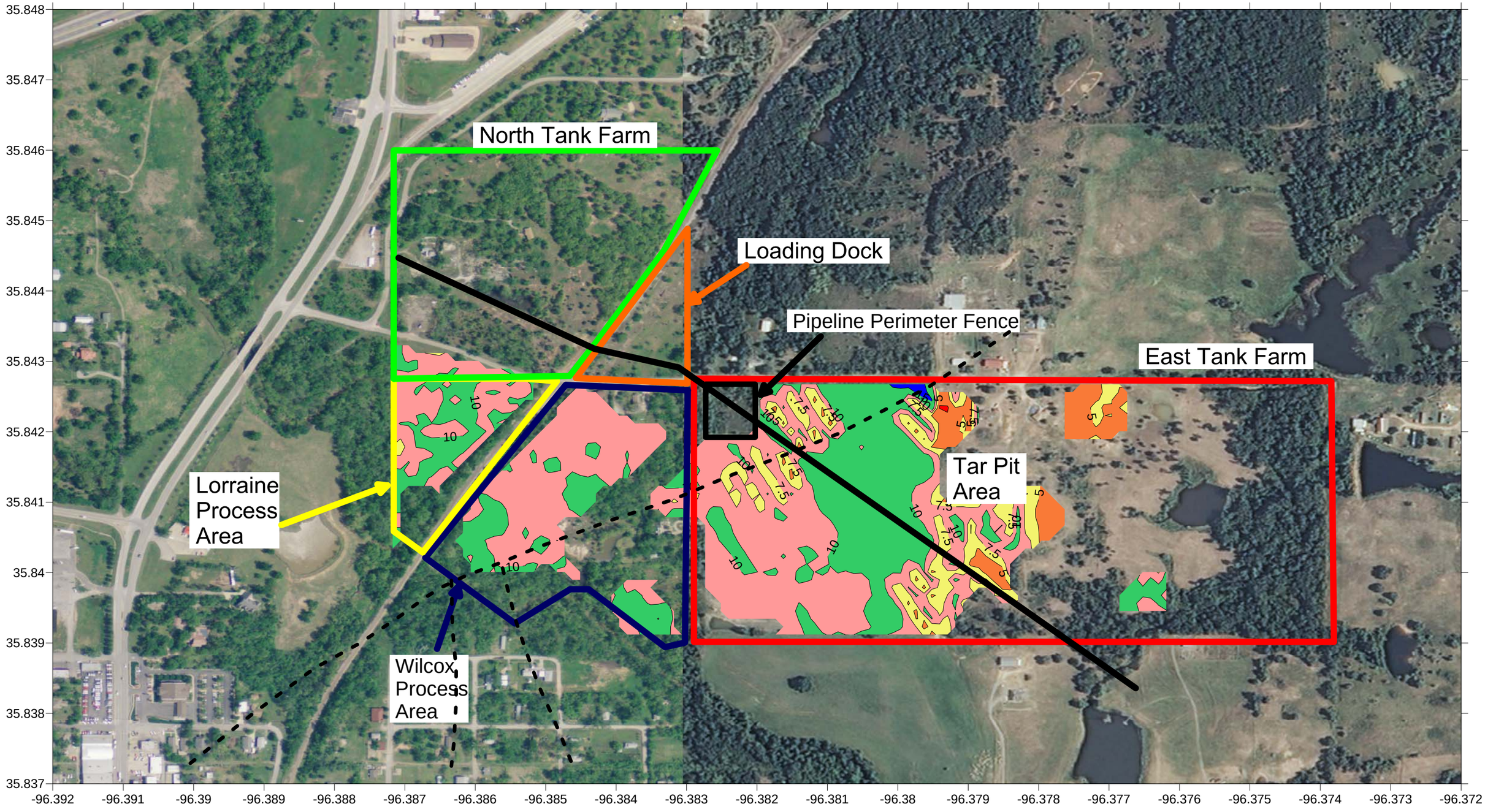


Figure 78
Sitewide Bedrock Elevation Map

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

Coordinates are presented in Latitude/Longitude



N
W E
S
015693

Figure 79
Sitewide Soil Thickness Map

Soil Thickness (Feet)
0 2.5 5 7.5 10 15 20

Coordinates are presented in Latitude/Longitude

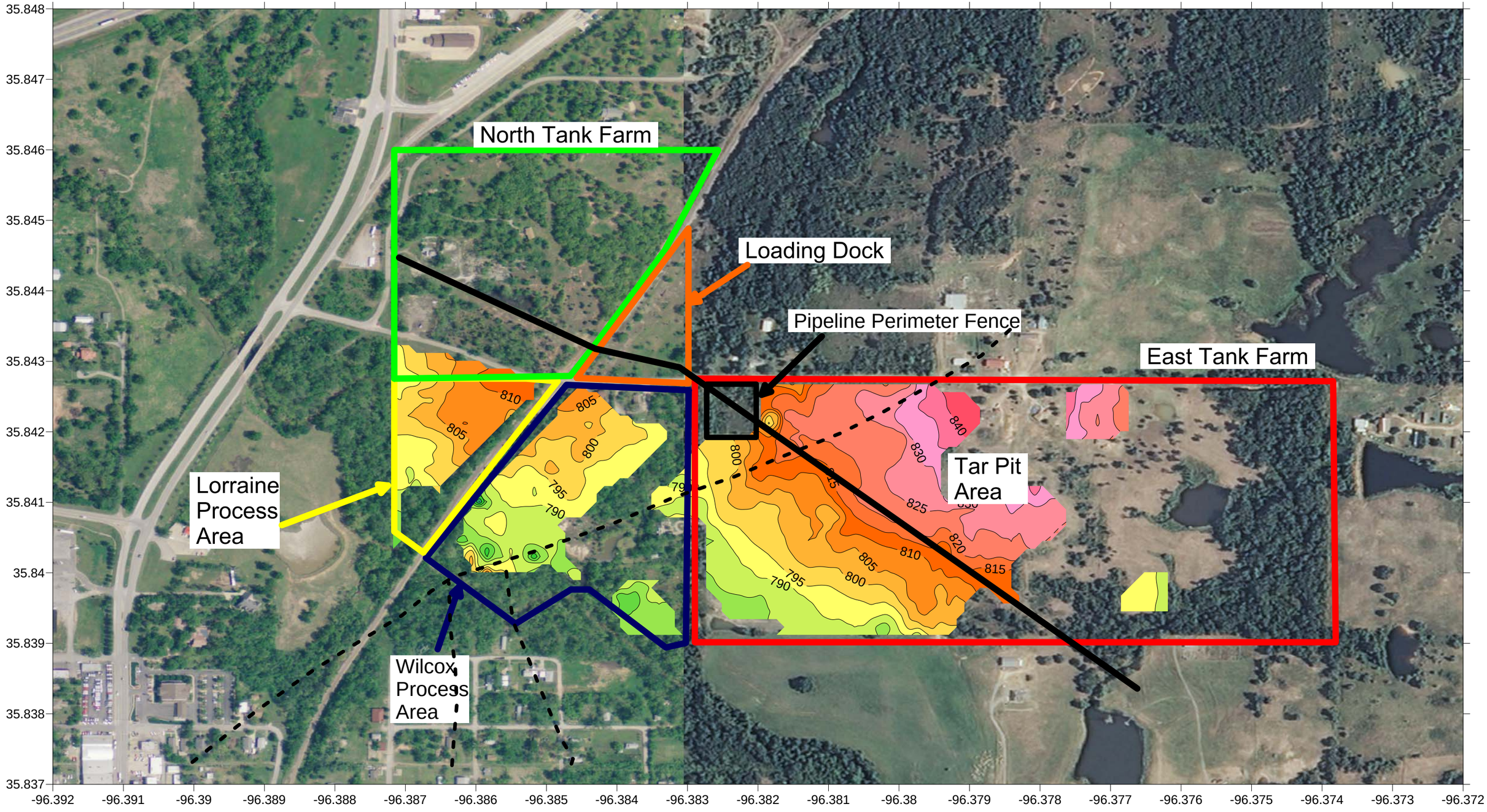
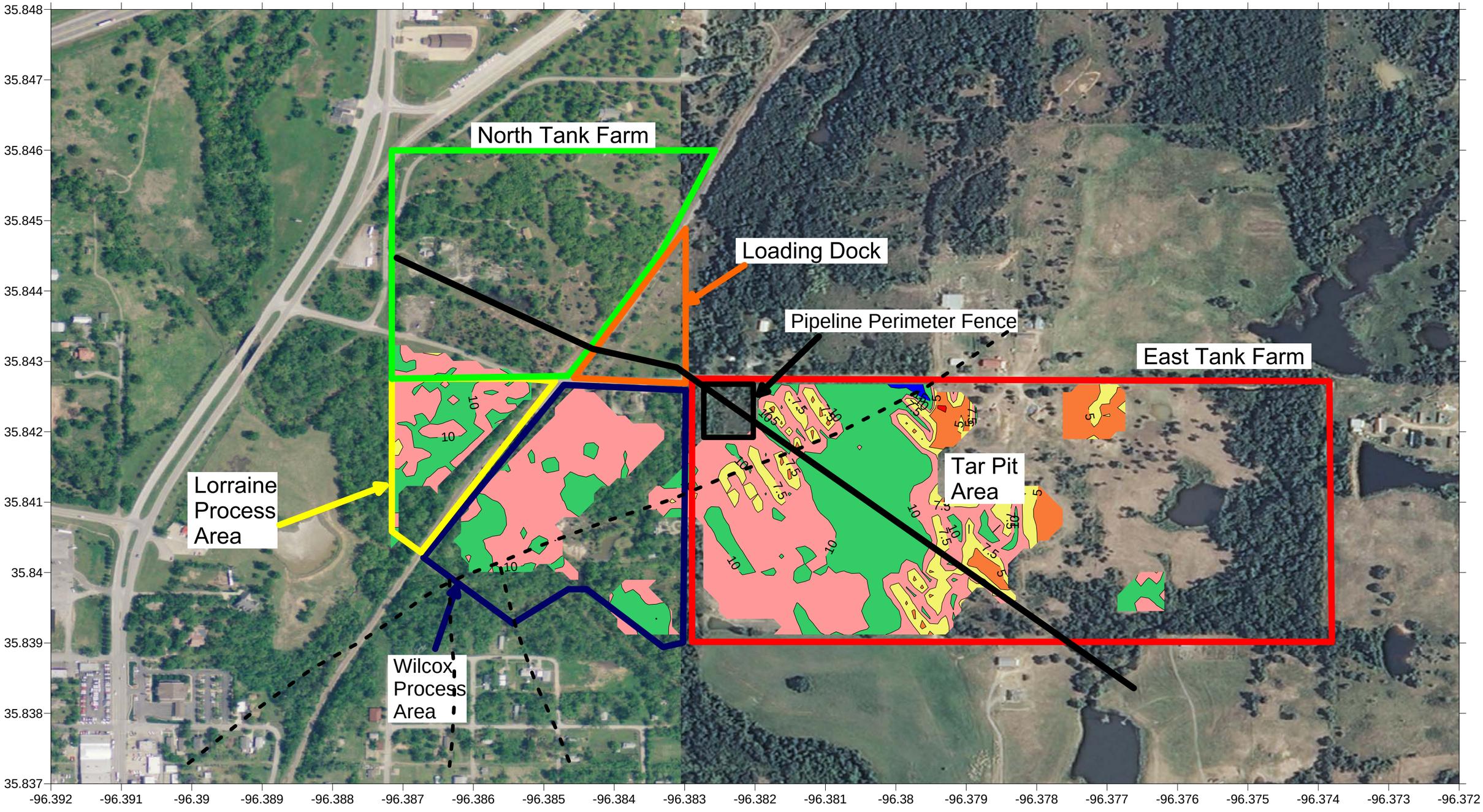


Figure ES-1
Sitewide Bedrock Elevation Map

Bedrock Elevation (Feet AMSL)

750 760 770 780 790 800 810 820 830 840 850

Coordinates are presented in Latitude/Longitude



N
W E
S

015695

Figure ES-2
Sitewide Soil Thickness Map

Soil Thickness (Feet)

0 2.5 5 7.5 10 15 20

Coordinates are presented in Latitude/Longitude

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 13, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: **WILCOX OIL**

Case#: **45671**

SDG#: **F6R00**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 12, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Wallace Doong, Data Reviewer, ESAT WD

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ by WD

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1602-211-0051
TDF No.:	6-16-115A
ESAT File No.:	O-1317

Attached is the data review summary for Case # 45671
SDG # F6R00
Site Wilcox Oil

015697

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45671	SITE	Wilcox Oil
LABORATORY	EQI	NO. OF SAMPLES	5
CONTRACT#	EP-W-14-035	MATRIX	Soil
SDG#	F6R00	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM02.3/MA 2544.1	REVIEWER'S NAME	Wallace Doong
SF#	303DD2GG	COMPLETION DATE	January 12, 2016

SAMPLE NO.					
	F6R00	F6R04			
	F6R01				
	F6R02				
	F6R03				

DATA ASSESSMENT SUMMARY

	LMVOA	SVOA	SVOA-SIM
1. HOLDING TIMES	O	O	M
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	O	O	M
4. BLANKS	O	O	O
5. DMC/SURROGATES	M	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A	N/A
7. OTHER QC	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	M
9. COMPOUND ID/QUANTITATION	O	O	O
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: **SVOA-SIM** The re-extraction of samples F6R01, F6R02, F6R03, and F6R04 exceeded the contractual holding time limit. The laboratory failed to reanalyze samples F6R01 and F6R03 for unacceptable IS performance. These deficiencies caused data qualification.

AREA OF CONCERN: **LMVOA** Sample F6R03 had two outlying DMC recoveries. **SVOA-SIM** The re-extraction of samples F6R01, F6R02, F6R03, and F6R04 exceeded the technical holding time limit. The 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol failed the technical %D calibration criteria. Samples F6R01 and F6R03 had poor IS performance.

015698

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** F6R00 **SITE** Wilcox Oil **LAB** EQI

COMMENTS: This SDG consisted of five soil samples for LMVOA, SVOA, and SVOA-SIM analyses following CLP SOW SOM02.3. The samples were also subject to Modified Analysis Request 2544.1 (MA 2544.1), which required the laboratory to analyze the samples for 19 additional compounds and lower CRQLs for the SVOA-SIM analyses. MS/MSD analyses were not requested for this case.

The SOW requires that the soil sample results be adjusted for moisture content as well as dilution when applicable. The adjusted CRQLs, higher than the CRQLs specified in the SOW and MA 2544.1, were reported by the laboratory and are referred to as SQLs in this report.

S4VEM Review was performed for this package as requested by the Region. The target compounds of concern with the required CRQLs are listed in MA 2544.1 (pages 29 and 30 of this report). Although both the full scan and SIM analysis results were available for all SVOA samples, the SIM analysis results are designated for use only when the corresponding full scan analysis results were non-detects or below the SQLs. The target compounds of concern reported at concentrations above the SQLs were dibenzofuran and/or PAHs in all SVOA-SIM samples.

Because of high matrix background, the laboratory analyzed all LMVOA samples at the medium level (5 gm) and all SVOA and SVOA-SIM samples at 20X dilution. The laboratory also re-extracted and reanalyzed SVOA-SIM samples F6R01, F6R02, F6R03, and F6R04 at medium level (1 gm) with dilution (up to 5X) because of high 2-methylnaphthalene concentrations.

OVERALL ASSESSMENT: Some results were qualified for LMVOA sample F6R03 and all SVOA-SIM samples because of problems with holding time, calibration, DMC recovery, and/or IS performance. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF deliverable and reporting issues (see Resubmission Request). The laboratory response will not impact the DST, so the DST included in this report is the final version.

015699

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

015700

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

015701

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

015702

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-71-8	Dichlorodifluoromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	74-87-3	Chloromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-01-4	Vinyl chloride	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	74-83-9	Bromomethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-00-3	Chloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-69-4	Trichlorofluoromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-35-4	1,1-Dichloroethene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	67-64-1	Acetone	540	U	ug/kg	540	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-15-0	Carbon disulfide	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	79-20-9	Methyl acetate	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-09-2	Methylene chloride	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	156-60-5	trans-1,2-Dichloroethene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	1634-04-4	Methyl tert-butyl ether	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-34-3	1,1-Dichloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	156-59-2	cis-1,2-Dichloroethene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	78-93-3	2-Butanone	540	U	ug/kg	540	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	74-97-5	Bromochloromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	67-66-3	Chloroform	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	71-55-6	1,1,1-Trichloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	110-82-7	Cyclohexane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	56-23-5	Carbon tetrachloride	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	71-43-2	Benzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	107-06-2	1,2-Dichloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	79-01-6	Trichloroethene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	108-87-2	Methylcyclohexane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	78-87-5	1,2-Dichloropropane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-27-4	Bromodichloromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	10061-01-5	cis-1,3-Dichloropropene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	108-10-1	4-Methyl-2-pentanone	540	U	ug/kg	540	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	108-88-3	Toluene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	10061-02-6	trans-1,3-Dichloropropene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	79-00-5	1,1,2-Trichloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	127-18-4	Tetrachloroethene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	591-78-6	2-Hexanone	540	U	ug/kg	540	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	124-48-1	Dibromochloromethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	106-93-4	1,2-Dibromoethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	108-90-7	Chlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	100-41-4	Ethylbenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	95-47-6	o-Xylene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	179601-23-1	m, p-Xylene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	100-42-5	Styrene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	75-25-2	Bromoform	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	98-82-8	Isopropylbenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	79-34-5	1,1,2,2-Tetrachloroethane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	541-73-1	1,3-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	106-46-7	1,4-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	95-50-1	1,2-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	96-12-8	1,2-Dibromo-3-chloropropane	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	120-82-1	1,2,4-Trichlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/09/2015	19:22:00	87-61-6	1,2,3-Trichlorobenzene	270	U	ug/kg	270	12/03/2015	P-04-01

015703

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-71-8	Dichlorodifluoromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	74-87-3	Chloromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-01-4	Vinyl chloride	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	74-83-9	Bromomethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-00-3	Chloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-69-4	Trichlorofluoromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-35-4	1,1-Dichloroethene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	67-64-1	Acetone	550	U	ug/kg	550	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-15-0	Carbon disulfide	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	79-20-9	Methyl acetate	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-09-2	Methylene chloride	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	156-60-5	trans-1,2-Dichloroethene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	1634-04-4	Methyl tert-butyl ether	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-34-3	1,1-Dichloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	156-59-2	cis-1,2-Dichloroethene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	78-93-3	2-Butanone	550	U	ug/kg	550	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	74-97-5	Bromochloromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	67-66-3	Chloroform	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	71-55-6	1,1,1-Trichloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	110-82-7	Cyclohexane	130	LJ	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	56-23-5	Carbon tetrachloride	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	71-43-2	Benzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	107-06-2	1,2-Dichloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	79-01-6	Trichloroethene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	108-87-2	Methylcyclohexane	800		ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	78-87-5	1,2-Dichloropropane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-27-4	Bromodichloromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	10061-01-5	cis-1,3-Dichloropropene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	108-10-1	4-Methyl-2-pentanone	550	U	ug/kg	550	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	108-88-3	Toluene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	10061-02-6	trans-1,3-Dichloropropene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	79-00-5	1,1,2-Trichloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	127-18-4	Tetrachloroethene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	591-78-6	2-Hexanone	550	U	ug/kg	550	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	124-48-1	Dibromochloromethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	106-93-4	1,2-Dibromoethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	108-90-7	Chlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	100-41-4	Ethylbenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	95-47-6	o-Xylene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	179601-23-1	m, p-Xylene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	100-42-5	Styrene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	75-25-2	Bromoform	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	98-82-8	Isopropylbenzene	110	LJ	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	79-34-5	1,1,2,2-Tetrachloroethane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	541-73-1	1,3-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	106-46-7	1,4-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	95-50-1	1,2-Dichlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	96-12-8	1,2-Dibromo-3-chloropropane	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	120-82-1	1,2,4-Trichlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/09/2015	19:43:00	87-61-6	1,2,3-Trichlorobenzene	270	U	ug/kg	270	12/03/2015	LOR-06

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-71-8	Dichlorodifluoromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	74-87-3	Chloromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-01-4	Vinyl chloride	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	74-83-9	Bromomethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-00-3	Chloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-69-4	Trichlorofluoromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-35-4	1,1-Dichloroethene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	67-64-1	Acetone	810	U	ug/kg	810	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-15-0	Carbon disulfide	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	79-20-9	Methyl acetate	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-09-2	Methylene chloride	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	156-60-5	trans-1,2-Dichloroethene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	1634-04-4	Methyl tert-butyl ether	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-34-3	1,1-Dichloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	156-59-2	cis-1,2-Dichloroethene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	78-93-3	2-Butanone	810	U	ug/kg	810	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	74-97-5	Bromochloromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	67-66-3	Chloroform	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	71-55-6	1,1,1-Trichloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	110-82-7	Cyclohexane	1300		ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	56-23-5	Carbon tetrachloride	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	71-43-2	Benzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	107-06-2	1,2-Dichloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	79-01-6	Trichloroethene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	108-87-2	Methylcyclohexane	11000		ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	78-87-5	1,2-Dichloropropane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-27-4	Bromodichloromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	10061-01-5	cis-1,3-Dichloropropene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	108-10-1	4-Methyl-2-pentanone	810	U	ug/kg	810	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	108-88-3	Toluene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	10061-02-6	trans-1,3-Dichloropropene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	79-00-5	1,1,2-Trichloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	127-18-4	Tetrachloroethene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	591-78-6	2-Hexanone	810	U	ug/kg	810	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	124-48-1	Dibromochloromethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	106-93-4	1,2-Dibromoethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	108-90-7	Chlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	100-41-4	Ethylbenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	95-47-6	o-Xylene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	179601-23-1	m, p-Xylene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	100-42-5	Styrene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	75-25-2	Bromoform	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	98-82-8	Isopropylbenzene	1200		ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	79-34-5	1,1,2,2-Tetrachloroethane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	541-73-1	1,3-Dichlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	106-46-7	1,4-Dichlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	95-50-1	1,2-Dichlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	96-12-8	1,2-Dibromo-3-chloropropane	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	120-82-1	1,2,4-Trichlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/09/2015	20:05:00	87-61-6	1,2,3-Trichlorobenzene	410	U	ug/kg	410	12/03/2015	LOR-12

015705

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-71-8	Dichlorodifluoromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	74-87-3	Chloromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-01-4	Vinyl chloride	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	74-83-9	Bromomethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-00-3	Chloroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-69-4	Trichlorofluoromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-35-4	1,1-Dichloroethene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	67-64-1	Acetone	570	U	ug/kg	570	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-15-0	Carbon disulfide	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	79-20-9	Methyl acetate	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-09-2	Methylene chloride	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	156-60-5	trans-1,2-Dichloroethene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	1634-04-4	Methyl tert-butyl ether	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-34-3	1,1-Dichloroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	156-59-2	cis-1,2-Dichloroethene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	78-93-3	2-Butanone	570	U	ug/kg	570	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	74-97-5	Bromochloromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	67-66-3	Chloroform	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	71-55-6	1,1,1-Trichloroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	110-82-7	Cyclohexane	11000		ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	56-23-5	Carbon tetrachloride	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	71-43-2	Benzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	107-06-2	1,2-Dichloroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	79-01-6	Trichloroethene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	14:59:00	108-87-2	Methylcyclohexane	29000		ug/kg	2900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	78-87-5	1,2-Dichloropropane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-27-4	Bromodichloromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	10061-01-5	cis-1,3-Dichloropropene	290	UJv	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	108-10-1	4-Methyl-2-pentanone	570	U	ug/kg	570	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	108-88-3	Toluene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	10061-02-6	trans-1,3-Dichloropropene	290	UJv	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	79-00-5	1,1,2-Trichloroethane	290	UJv	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	127-18-4	Tetrachloroethene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	591-78-6	2-Hexanone	570	U	ug/kg	570	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	124-48-1	Dibromochloromethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	106-93-4	1,2-Dibromoethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	108-90-7	Chlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	100-41-4	Ethylbenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	95-47-6	o-Xylene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	179601-23-1	m, p-Xylene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	100-42-5	Styrene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	75-25-2	Bromoform	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	98-82-8	Isopropylbenzene	2300	J^	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	79-34-5	1,1,2,2-Tetrachloroethane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	541-73-1	1,3-Dichlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	106-46-7	1,4-Dichlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	95-50-1	1,2-Dichlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	96-12-8	1,2-Dibromo-3-chloropropane	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	120-82-1	1,2,4-Trichlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/09/2015	20:26:00	87-61-6	1,2,3-Trichlorobenzene	290	U	ug/kg	290	12/03/2015	LOR-09

015706

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-71-8	Dichlorodifluoromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	74-87-3	Chloromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-01-4	Vinyl chloride	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	74-83-9	Bromomethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-00-3	Chloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-69-4	Trichlorofluoromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-35-4	1,1-Dichloroethene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	67-64-1	Acetone	590	U	ug/kg	590	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-15-0	Carbon disulfide	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	79-20-9	Methyl acetate	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-09-2	Methylene chloride	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	156-60-5	trans-1,2-Dichloroethene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	1634-04-4	Methyl tert-butyl ether	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-34-3	1,1-Dichloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	156-59-2	cis-1,2-Dichloroethene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	78-93-3	2-Butanone	590	U	ug/kg	590	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	74-97-5	Bromochloromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	67-66-3	Chloroform	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	71-55-6	1,1,1-Trichloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	110-82-7	Cyclohexane	1400		ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	56-23-5	Carbon tetrachloride	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	71-43-2	Benzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	107-06-2	1,2-Dichloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	79-01-6	Trichloroethene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	108-87-2	Methylcyclohexane	6400		ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	78-87-5	1,2-Dichloropropane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-27-4	Bromodichloromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	10061-01-5	cis-1,3-Dichloropropene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	108-10-1	4-Methyl-2-pentanone	590	U	ug/kg	590	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	108-88-3	Toluene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	10061-02-6	trans-1,3-Dichloropropene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	79-00-5	1,1,2-Trichloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	127-18-4	Tetrachloroethene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	591-78-6	2-Hexanone	590	U	ug/kg	590	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	124-48-1	Dibromochloromethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	106-93-4	1,2-Dibromoethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	108-90-7	Chlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	100-41-4	Ethylbenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	95-47-6	o-Xylene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	179601-23-1	m, p-Xylene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	100-42-5	Styrene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	75-25-2	Bromoform	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	98-82-8	Isopropylbenzene	430		ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	79-34-5	1,1,2,2-Tetrachloroethane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	541-73-1	1,3-Dichlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	106-46-7	1,4-Dichlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	95-50-1	1,2-Dichlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	96-12-8	1,2-Dibromo-3-chloropropane	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	120-82-1	1,2,4-Trichlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/09/2015	20:47:00	87-61-6	1,2,3-Trichlorobenzene	300	U	ug/kg	300	12/03/2015	FD-01

015707

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	100-52-7	Benzaldehyde	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	108-95-2	Phenol	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	111-44-4	Bis(2-Chloroethyl) ether	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	95-57-8	2-Chlorophenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	95-48-7	2-Methylphenol	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	98-86-2	Acetophenone	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	106-44-5	4-Methylphenol	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	621-64-7	N-Nitroso-di-n propylamine	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	67-72-1	Hexachloroethane	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	98-95-3	Nitrobenzene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	78-59-1	Isophorone	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	88-75-5	2-Nitrophenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	105-67-9	2,4-Dimethylphenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	111-91-1	Bis(2-chloroethoxy)methane	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	120-83-2	2,4-Dichlorophenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	91-20-3	Naphthalene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	106-47-8	4-Chloroaniline	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	87-68-3	Hexachlorobutadiene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	105-60-2	Caprolactam	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	59-50-7	4-Chloro-3-methylphenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	91-57-6	2-Methylnaphthalene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	77-47-4	Hexachlorocyclo-pentadiene	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	88-06-2	2,4,6-Trichlorophenol	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	95-95-4	2,4,5-Trichlorophenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	92-52-4	1,1'-Biphenyl	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	91-58-7	2-Chloronaphthalene	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	88-74-4	2-Nitroaniline	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	131-11-3	Dimethylphthalate	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	606-20-2	2,6-Dinitrotoluene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	208-96-8	Acenaphthylene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	99-09-2	3-Nitroaniline	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	83-32-9	Acenaphthene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	51-28-5	2,4-Dinitrophenol	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	100-02-7	4-Nitrophenol	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	132-64-9	Dibenzofuran	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	121-14-2	2,4-Dinitrotoluene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	84-66-2	Diethylphthalate	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	86-73-7	Fluorene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	7005-72-3	4-Chlorophenyl-phenyl ether	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	100-01-6	4-Nitroaniline	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	534-52-1	4,6-Dinitro-2-methylphenol	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	86-30-6	N-Nitrosodiphenylamine	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	101-55-3	4-Bromophenyl-phenylether	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	118-74-1	Hexachlorobenzene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	1912-24-9	Atrazine	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	87-86-5	Pentachlorophenol	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	85-01-8	Phenanthrene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	120-12-7	Anthracene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	86-74-8	Carbazole	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	84-74-2	Di-n-butylphthalate	4000	U	ug/kg	4000	12/03/2015	P-04-01

015708

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	206-44-0	Fluoranthene	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	129-00-0	Pyrene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	85-68-7	Butylbenzylphthalate	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	91-94-1	3,3'-Dichlorobenzidine	7700	U*	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	56-55-3	Benzo(a)anthracene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	218-01-9	Chrysene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	117-81-7	Bis(2-ethylhexyl)phthalate	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	117-84-0	Di-n-octylphthalate	7700	U	ug/kg	7700	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	205-99-2	Benzo(b)fluoranthene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	207-08-9	Benzo(k)fluoranthene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	50-32-8	Benzo(a)pyrene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	193-39-5	Indeno(1,2,3-cd)pyrene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	53-70-3	Dibenzo(a,h)anthracene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	191-24-2	Benzo(g,h,i)perylene	4000	U*	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00	QL04012-001	S	12/14/2015	20:29:00	58-90-2	2,3,4,6-Tetrachlorophenol	4000	U	ug/kg	4000	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	91-20-3	Naphthalene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	91-57-6	2-Methylnaphthalene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	208-96-8	Acenaphthylene	25	LJ	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	83-32-9	Acenaphthene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	86-73-7	Fluorene	140		ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	85-01-8	Phenanthrene	200		ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	120-12-7	Anthracene	230		ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	206-44-0	Fluoranthene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	129-00-0	Pyrene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	56-55-3	Benzo(a)anthracene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	218-01-9	Chrysene	140		ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	205-99-2	Benzo(b)fluoranthene	38	LJ	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	207-08-9	Benzo(k)fluoranthene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	50-32-8	Benzo(a)pyrene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	193-39-5	Indeno(1,2,3-cd)pyrene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	53-70-3	Dibenzo(a,h)anthracene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	191-24-2	Benzo(g,h,i)perylene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	132-64-9	Dibenzofuran	100		ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	92-52-4	1,1'-Biphenyl	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	51-28-5	2,4-Dinitrophenol	770	UJ	ug/kg	770	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/03/2015	P-04-01
45671	F6R00	F6R00 (SIM)	QL04012-001	S	12/18/2015	17:28:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/03/2015	P-04-01

015709

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	100-52-7	Benzaldehyde	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	108-95-2	Phenol	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	111-44-4	Bis(2-Chloroethyl) ether	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	95-48-7	2-Methylphenol	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	98-86-2	Acetophenone	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	106-44-5	4-Methylphenol	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	91-20-3	Naphthalene	410	*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	106-47-8	4-Chloroaniline	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	105-60-2	Caprolactam	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	91-57-6	2-Methylnaphthalene	2400	*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	77-47-4	Hexachlorocyclo-pentadiene	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	99-09-2	3-Nitroaniline	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	51-28-5	2,4-Dinitrophenol	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	100-02-7	4-Nitrophenol	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	100-01-6	4-Nitroaniline	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	534-52-1	4,6-Dinitro-2-methylphenol	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	1912-24-9	Atrazine	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	87-86-5	Pentachlorophenol	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	85-01-8	Phenanthrene	1400	*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	86-74-8	Carbazole	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-06

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	206-44-0	Fluoranthene	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	91-94-1	3,3'-Dichlorobenzidine	7600	U*	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	117-84-0	Di-n-octylphthalate	7600	U	ug/kg	7600	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01	QL04012-002	S	12/14/2015	20:58:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	91-20-3	Naphthalene	860		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	91-57-6	2-Methylnaphthalene	4200	*	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	86-73-7	Fluorene	470	J	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	85-01-8	Phenanthrene	2400		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	120-12-7	Anthracene	450		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	129-00-0	Pyrene	230		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	218-01-9	Chrysene	440		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	205-99-2	Benzo(b)fluoranthene	82		ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	207-08-9	Benzo(k)fluoranthene	30	LJ	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	193-39-5	Indeno(1,2,3-cd)pyrene	13	LJ	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	191-24-2	Benzo(g,h,i)perylene	23	LJ	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	51-28-5	2,4-Dinitrophenol	760	UJ	ug/kg	760	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/03/2015	LOR-06
45671	F6R00	F6R01 (SIM)	QL04012-002	S	12/18/2015	17:55:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/03/2015	LOR-06

015711

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	91-20-3	Naphthalene	1300	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	91-57-6	2-Methylnaphthalene	6400	J	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	208-96-8	Acenaphthylene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	83-32-9	Acenaphthene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	86-73-7	Fluorene	890	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	87-86-5	Pentachlorophenol	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	85-01-8	Phenanthrene	3000	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	120-12-7	Anthracene	570	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	206-44-0	Fluoranthene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	129-00-0	Pyrene	250	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	56-55-3	Benzo(a)anthracene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	218-01-9	Chrysene	280	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	205-99-2	Benzo(b)fluoranthene	47	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	207-08-9	Benzo(k)fluoranthene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	50-32-8	Benzo(a)pyrene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	53-70-3	Dibenzo(a,h)anthracene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	191-24-2	Benzo(g,h,i)perylene	27	*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	111-44-4	bis(2-Chloroethyl)ether	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	108-60-1	2,2'-Oxybis(1-chloropropane)	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	621-64-7	N-Nitrosodi-n-propylamine	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	67-72-1	Hexachloroethane	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	98-95-3	Nitrobenzene	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	106-47-8	4-Chloroaniline	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	87-68-3	Hexachlorobutadiene	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	95-94-3	1,2,4,5-Tetrachlorobenzene	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	51-28-5	2,4-Dinitrophenol	5800	U*	ug/kg	5800		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	91-94-1	3,3'-Dichlorobenzidine	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	1912-24-9	Atrazine	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	118-74-1	Hexachlorobenzene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	534-52-1	4,6-Dinitro-2-methylphenol	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	132-64-9	Dibenzofuran	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	121-14-2	2,4-Dinitrotoluene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	606-20-2	2,6-Dinitrotoluene	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	123-91-1	1,4-Dioxane	300	U*	ug/kg	300		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	88-06-2	2,4,6-Trichlorophenol	580	U*	ug/kg	580		
45671	F6R00	F6R01RX (SIM)	QL04012-002	S	12/23/2015	12:02:00	92-52-4	1,1'-Biphenyl	300	U*	ug/kg	300		
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	100-52-7	Benzaldehyde	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	108-95-2	Phenol	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	111-44-4	Bis(2-Chloroethyl) ether	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	95-48-7	2-Methylphenol	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	98-86-2	Acetophenone	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	106-44-5	4-Methylphenol	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/03/2015	LOR-12

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	91-20-3	Naphthalene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	106-47-8	4-Chloroaniline	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	105-60-2	Caprolactam	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	91-57-6	2-Methylnaphthalene	2600	*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	77-47-4	Hexachlorocyclo-pentadiene	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	99-09-2	3-Nitroaniline	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	51-28-5	2,4-Dinitrophenol	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	100-02-7	4-Nitrophenol	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	100-01-6	4-Nitroaniline	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	534-52-1	4,6-Dinitro-2-methylphenol	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	1912-24-9	Atrazine	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	87-86-5	Pentachlorophenol	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	85-01-8	Phenanthrene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	86-74-8	Carbazole	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	206-44-0	Fluoranthene	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	91-94-1	3,3'-Dichlorobenzidine	7500	U*	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	117-84-0	Di-n-octylphthalate	7500	U	ug/kg	7500	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/03/2015	LOR-12
45671	F6R00	F6R02	QL04012-003	S	12/14/2015	21:27:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-12

015713

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	91-20-3	Naphthalene	900		ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	91-57-6	2-Methylnaphthalene	5200	*	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	86-73-7	Fluorene	170		ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	85-01-8	Phenanthrene	210		ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	120-12-7	Anthracene	40		ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	129-00-0	Pyrene	19	LJ	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	218-01-9	Chrysene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	51-28-5	2,4-Dinitrophenol	760	UJ	ug/kg	760	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/03/2015	LOR-12
45671	F6R00	F6R02 (SIM)	QL04012-003	S	12/18/2015	18:21:00	132-64-9	Dibenzofuran	210		ug/kg	39	12/03/2015	LOR-12
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	91-20-3	Naphthalene	640	*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	91-57-6	2-Methylnaphthalene	3400	J	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	208-96-8	Acenaphthylene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	83-32-9	Acenaphthene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	86-73-7	Fluorene	93	*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	87-86-5	Pentachlorophenol	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	85-01-8	Phenanthrene	100	*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	120-12-7	Anthracene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	206-44-0	Fluoranthene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	129-00-0	Pyrene	28	*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	56-55-3	Benzo(a)anthracene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	218-01-9	Chrysene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	205-99-2	Benzo(b)fluoranthene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	207-08-9	Benzo(k)fluoranthene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	50-32-8	Benzo(a)pyrene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	193-39-5	Indeno(1,2,3-cd)pyrene	300	U*	ug/kg	300		

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	53-70-3	Dibenzo(a,h)anthracene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	191-24-2	Benzo(g,h,i)perylene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	621-64-7	N-Nitrosodi-n-propylamine	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	67-72-1	Hexachloroethane	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	98-95-3	Nitrobenzene	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	106-47-8	4-Chloroaniline	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	87-68-3	Hexachlorobutadiene	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	95-94-3	1,2,4,5-Tetrachlorobenzene	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	88-06-2	2,4,6-Trichlorophenol	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	92-52-4	1,1'-Biphenyl	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	606-20-2	2,6-Dinitrotoluene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	121-14-2	2,4-Dinitrotoluene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	132-64-9	Dibenzofuran	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	534-52-1	4,6-Dinitro-2-methylphenol	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	118-74-1	Hexachlorobenzene	300	U*	ug/kg	300		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	1912-24-9	Atrazine	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	108-60-1	2,2'-Oxybis(1-chloropropane)	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	111-44-4	bis(2-Chloroethyl)ether	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	91-94-1	3,3'-Dichlorobenzidine	580	U*	ug/kg	580		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	51-28-5	2,4-Dinitrophenol	5800	U*	ug/kg	5800		
45671	F6R00	F6R02RX (SIM)	QL04012-003	S	12/23/2015	12:28:00	123-91-1	1,4-Dioxane	300	U*	ug/kg	300		
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	100-52-7	Benzaldehyde	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	108-95-2	Phenol	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	111-44-4	Bis(2-Chloroethyl) ether	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	95-48-7	2-Methylphenol	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	98-86-2	Acetophenone	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	106-44-5	4-Methylphenol	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	91-20-3	Naphthalene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	106-47-8	4-Chloroaniline	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	105-60-2	Caprolactam	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	91-57-6	2-Methylnaphthalene	1200	*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	77-47-4	Hexachlorocyclo-pentadiene	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/03/2015	LOR-09

015715

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	99-09-2	3-Nitroaniline	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	51-28-5	2,4-Dinitrophenol	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	100-02-7	4-Nitrophenol	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	100-01-6	4-Nitroaniline	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	534-52-1	4,6-Dinitro-2-methylphenol	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	1912-24-9	Atrazine	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	87-86-5	Pentachlorophenol	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	85-01-8	Phenanthrene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	86-74-8	Carbazole	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	206-44-0	Fluoranthene	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	91-94-1	3,3'-Dichlorobenzidine	7500	U*	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	117-84-0	Di-n-octylphthalate	7500	U	ug/kg	7500	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03	QL04012-004	S	12/14/2015	21:55:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	91-20-3	Naphthalene	350		ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	91-57-6	2-Methylnaphthalene	2500	*	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	86-73-7	Fluorene	360	J	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	87-86-5	Pentachlorophenol	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	85-01-8	Phenanthrene	810		ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	120-12-7	Anthracene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	129-00-0	Pyrene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	56-55-3	Benzo(a)anthracene	14	LJ	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	218-01-9	Chrysene	61		ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	205-99-2	Benzo(b)fluoranthene	22	LJ	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/03/2015	LOR-09

015716

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	67-72-1	Hexachloroethane	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	111-44-4	bis(2-Chloroethyl)ether	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	51-28-5	2,4-Dinitrophenol	750	UJ	ug/kg	750	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	106-47-8	4-Chloroaniline	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	91-94-1	3,3'-Dichlorobenzidine	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	1912-24-9	Atrazine	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	534-52-1	4,6-Dinitro-2-methylphenol	75	UJ	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	132-64-9	Dibenzofuran	160	J	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	88-06-2	2,4,6-Trichlorophenol	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	87-68-3	Hexachlorobutadiene	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03 (SIM)	QL04012-004	S	12/18/2015	18:47:00	98-95-3	Nitrobenzene	75	U	ug/kg	75	12/03/2015	LOR-09
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	91-20-3	Naphthalene	890	*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	91-57-6	2-Methylnaphthalene	4200	J	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	208-96-8	Acenaphthylene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	83-32-9	Acenaphthene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	86-73-7	Fluorene	500	*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	87-86-5	Pentachlorophenol	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	85-01-8	Phenanthrene	870	*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	120-12-7	Anthracene	310	*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	206-44-0	Fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	129-00-0	Pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	56-55-3	Benzo(a)anthracene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	218-01-9	Chrysene	79	*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	205-99-2	Benzo(b)fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	207-08-9	Benzo(k)fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	50-32-8	Benzo(a)pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	193-39-5	Indeno(1,2,3-cd)pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	53-70-3	Dibenzo(a,h)anthracene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	191-24-2	Benzo(g,h,i)perylene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	1912-24-9	Atrazine	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	91-94-1	3,3'-Dichlorobenzidine	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	51-28-5	2,4-Dinitrophenol	2300	U*	ug/kg	2300		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	123-91-1	1,4-Dioxane	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	111-44-4	bis(2-Chloroethyl)ether	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	108-60-1	2,2'-Oxybis(1-chloropropane)	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	621-64-7	N-Nitrosodi-n-propylamine	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	67-72-1	Hexachloroethane	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	98-95-3	Nitrobenzene	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	106-47-8	4-Chloroaniline	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	87-68-3	Hexachlorobutadiene	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	95-94-3	1,2,4,5-Tetrachlorobenzene	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	88-06-2	2,4,6-Trichlorophenol	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	92-52-4	1,1'-Biphenyl	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	606-20-2	2,6-Dinitrotoluene	120	U*	ug/kg	120		

015717

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	121-14-2	2,4-Dinitrotoluene	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	132-64-9	Dibenzofuran	120	U*	ug/kg	120		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	534-52-1	4,6-Dinitro-2-methylphenol	230	U*	ug/kg	230		
45671	F6R00	F6R03RX (SIM)	QL04012-004	S	12/23/2015	12:55:00	118-74-1	Hexachlorobenzene	120	U*	ug/kg	120		
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	100-52-7	Benzaldehyde	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	108-95-2	Phenol	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	111-44-4	Bis(2-Chloroethyl) ether	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	95-48-7	2-Methylphenol	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	98-86-2	Acetophenone	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	106-44-5	4-Methylphenol	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	91-20-3	Naphthalene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	106-47-8	4-Chloroaniline	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	105-60-2	Caprolactam	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	91-57-6	2-Methylnaphthalene	1300	*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	77-47-4	Hexachlorocyclo-pentadiene	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	99-09-2	3-Nitroaniline	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	51-28-5	2,4-Dinitrophenol	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	100-02-7	4-Nitrophenol	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	100-01-6	4-Nitroaniline	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	534-52-1	4,6-Dinitro-2-methylphenol	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	1912-24-9	Atrazine	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	87-86-5	Pentachlorophenol	7600	U*	ug/kg	7600	12/03/2015	FD-01

015718

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	85-01-8	Phenanthrene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	86-74-8	Carbazole	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	206-44-0	Fluoranthene	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	91-94-1	3,3'-Dichlorobenzidine	7600	U*	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	117-84-0	Di-n-octylphthalate	7600	U	ug/kg	7600	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04	QL04012-005	S	12/14/2015	22:24:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	91-20-3	Naphthalene	260		ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	91-57-6	2-Methylnaphthalene	2600	*	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	86-73-7	Fluorene	130		ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	85-01-8	Phenanthrene	200		ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	120-12-7	Anthracene	28	LJ	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	129-00-0	Pyrene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	218-01-9	Chrysene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	132-64-9	Dibenzofuran	93		ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	51-28-5	2,4-Dinitrophenol	770	UJ	ug/kg	770	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/03/2015	FD-01

015719

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04 (SIM)	QL04012-005	S	12/18/2015	19:14:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/03/2015	FD-01
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	91-20-3	Naphthalene	1100	*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	91-57-6	2-Methylnaphthalene	5600	J	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	208-96-8	Acenaphthylene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	83-32-9	Acenaphthene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	86-73-7	Fluorene	120	*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	87-86-5	Pentachlorophenol	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	85-01-8	Phenanthrene	180	*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	120-12-7	Anthracene	32	*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	206-44-0	Fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	129-00-0	Pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	56-55-3	Benzo(a)anthracene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	218-01-9	Chrysene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	205-99-2	Benzo(b)fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	207-08-9	Benzo(k)fluoranthene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	50-32-8	Benzo(a)pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	193-39-5	Indeno(1,2,3-cd)pyrene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	53-70-3	Dibenzo(a,h)anthracene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	191-24-2	Benzo(g,h,i)perylene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	121-14-2	2,4-Dinitrotoluene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	132-64-9	Dibenzofuran	150	*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	67-72-1	Hexachloroethane	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	534-52-1	4,6-Dinitro-2-methylphenol	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	118-74-1	Hexachlorobenzene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	1912-24-9	Atrazine	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	621-64-7	N-Nitrosodi-n-propylamine	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	108-60-1	2,2'-Oxybis(1-chloropropane)	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	111-44-4	bis(2-Chloroethyl)ether	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	123-91-1	1,4-Dioxane	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	91-94-1	3,3'-Dichlorobenzidine	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	51-28-5	2,4-Dinitrophenol	2300	U*	ug/kg	2300		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	98-95-3	Nitrobenzene	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	606-20-2	2,6-Dinitrotoluene	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	92-52-4	1,1'-Biphenyl	120	U*	ug/kg	120		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	88-06-2	2,4,6-Trichlorophenol	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	95-94-3	1,2,4,5-Tetrachlorobenzene	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	87-68-3	Hexachlorobutadiene	230	U*	ug/kg	230		
45671	F6R00	F6R04RX (SIM)	QL04012-005	S	12/23/2015	13:21:00	106-47-8	4-Chloroaniline	230	U*	ug/kg	230		

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. F6R00 SDG Nos. To Follow Mod. Ref No. 2544.1 Date Rec 12/31/15

EPA Lab ID: EQI

Lab Location: West Columbia, SC

Region: 6 Audit No.: 45671/F6R00

Re_Submitted CSF? Yes X No

Box No(s): 1

COMMENTS:

Item Description

3. The auditor corrected one "TO" page number. The auditor added some missing page numbers.

14./15. Sample tags were not used for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?		X	
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Wallace Doong Wallace Doong / ESAT Data Reviewer Date 01/05/16

Audited by: Signature Printed Name/Title Date

DC-2__

015721

In Reference To: O-1317
Case No.: 45671 SDG(s): F6R00

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	EQI
Lab Contact:	Robert Zhu
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Wallace Doong - ESAT

In reference to data for the fraction(s):

LMVOA SVOA/SVOA-SIM

Summary of Questions/Issues:

LMVOA

The "Level" should be "MED" for Form 6A (pages 291, 292, 312, and 313), Form 7A (pages 378, 379, 385, and 386), and Form 8A (pages 47 and 48). Please correct and resubmit these pages with proper pagination.

SVOA and SVOA--SIM

1. **SVOA-SIM:** For Form 8A (pages 776 to 779), the IS3 should be phenanthrene-d10 and results for IS6 (1,4-Dichlorobenzene-d4) were omitted for all samples. Please correct and resubmit these pages with proper pagination.

2. **SVOA and SVOA-SIM:** The recoveries for 1,4-Dioxane-d8 (DMC1) were outside the QC limits for SVOA method blank SBLK19 and SVOA-SIM method blanks SBLK02 and SBLK38, but contract required reanalyses and/or re-extractions (SOM02.3, p. D-54/SVOA, sec. 12.1.2.5.2 and D-55/SVOA, sec. 12.1.2.6.3) were not performed. Please submit additional information or explain.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM02.3, p. B-11, sec. 2.2.2). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 5 business days** (SOM02.3, p. B-11, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015722

Page 1 of 1

F6R00

USEPA CLP COC (LAB COPY)

DateShipped: 12/3/2015

CarrierName: FedEx

AirbillNo: 859483220465

CHAIN OF CUSTODY RECORD

Case #: 45671

Cooler #: EPW1405

No: 6-120315-164412-0002

Lab: Shealy Environmental Services - EQI

Lab Contact: Brad Belding

Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0001	F6R00	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1007 (4 C), 1008 (4 C), 1009 (4 C), 1010 (4 C) (4)	P-04-01	12/03/2015 09:05	
277-0002	F6R01	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1014 (4 C), 1015 (4 C), 1016 (4 C), 1017 (4 C) (4)	LOR-06	12/03/2015 10:30	
277-0003	F6R02	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1021 (4 C), 1022 (4 C), 1023 (4 C), 1024 (4 C) (4)	LOR-12	12/03/2015 11:10	
277-0004	F6R03	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1028 (4 C), 1029 (4 C), 1030 (4 C), 1031 (4 C) (4)	LOR-09	12/03/2015 11:45	
277-0005	F6R04	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1035 (4 C), 1036 (4 C), 1037 (4 C), 1038 (4 C) (4)	FD-01	12/03/2015 14:40	

Page 27 of 30

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All/Analysis	CM SERAS	12/3/15 16:45			
				12/4/15 1027	OK

SDG F6R00 Field Sample T=5.2

F6K00

USEPA CLP COC (LAB COPY)

DateShipped: 12/3/2015

CarrierName: FedEx

AirbillNo: 859483220454

CHAIN OF CUSTODY RECORD

Case #: 45671

Cooler #: CW140355

No: 6-120315-170132-0003

Lab: Shealy Environmental Services - EQI

Lab Contact: Brad Belding

Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0001	F6R00	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1011 (4 C), 1012 (4 C) (2)	P-04-01	12/03/2015 09:05	
277-0002	F6R01	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1018 (4 C), 1019 (4 C) (2)	LOR-06	12/03/2015 10:30	
277-0003	F6R02	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1025 (4 C), 1026 (4 C) (2)	LOR-12	12/03/2015 11:10	
277-0004	F6R03	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1032 (4 C), 1033 (4 C) (2)	LOR-09	12/03/2015 11:45	
277-0005	F6R04	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1039 (4 C), 1040 (4 C) (2)	FD-01	12/03/2015 14:40	

Page 28 of 30

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SVOAs/SVOASIMs=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (Soils)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	UM SERAS	1610 12/3/15			
				12/4/15 1027	OK

T=4.2

Date: 11/09/2015	MA: 2544.1	Title: SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	Method: Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications Not applicable ☐

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

015725

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

015726

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 20, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: F6R05

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. Due to matrix issues, some samples for VOA and SVOA analysis were analyzed at diluted levels only. In the VOA fraction, two target results were rejected in sample F6R05 and six target results were rejected in sample F6R09 due to poor surrogate performance. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 15, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1602-211-0054
TDF No.:	6-16-116A
ESAT File No.:	O-1318

Attached is the data review summary for Case # 45671
SDG # F6R05
Site Wilcox Oil

015729

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY EQI	NO. OF SAMPLES 17
CONTRACT# EP-W-14-035	MATRIX Soil
SDG# F6R05	REVIEWER (IF NOT ESB) ESAT
SOW# SOM02.3/MA 2544.1	REVIEWER'S NAME Linda Hoffman
SF# 303DD2GG	COMPLETION DATE January 15, 2016

SAMPLE NO.					
	F6R05	F6R09	F6R13	F6R17	F6R23
	F6R06	F6R10	F6R14	F6R19	
	F6R07	F6R11	F6R15	F6R20	
	F6R08	F6R12	F6R16	F6R21	

DATA ASSESSMENT SUMMARY

	LMVOA	SVOA	SVOA-SIM
1. HOLDING TIMES	O	M	M
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	M	O	M
4. BLANKS	O	O	M
5. DMC/SURROGATES	M	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A	N/A
7. OTHER QC	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	M
9. COMPOUND ID/QUANTITATION	O	M	M
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	M	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: The re-extraction of SVOA sample F6R06 and SVOA-SIM samples F6R05 and F6R06 exceeded the contractual holding time limit. The laboratory did not reanalyze and/or re-extract the SVOA and SVOA-SIM samples associated with method blanks that had outlying DMC recoveries. The laboratory failed to reanalyze LMVOA samples F6R12 and F6R23 for unacceptable DMC performance. The laboratory failed to reanalyze SVOA-SIM samples F6R05 and F6R06 for unacceptable IS performance.

AREA OF CONCERN: **LMVOA** Vinyl chloride and chloroethane failed the technical %D calibration criteria. Seven samples had poor DMC performance, rendering some results unusable. **SVOA** The re-extraction of sample F6R06 exceeded the technical holding time limit. Some results were inconsistent between the multiple analyses of three samples. **SVOA-SIM** The re-extraction of samples F6R05 and F6R06 exceeded the technical holding time limit. The 4,6-dinitro-2-methylphenol failed the technical %D calibration criteria. Six naphthalene and three 2-methylnaphthalene QLs were raised above the SQLs because of laboratory contamination. Two samples had poor IS performance. Some results were inconsistent between the multiple analyses of two samples.

015730

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 SDG F6R05 SITE Wilcox Oil LAB EQI

COMMENTS: This SDG consisted of 17 soil samples for LMVOA, SVOA, and/or SVOA-SIM analyses following CLP SOW SOM02.3. Samples F6R19, F6R20, F6R21, and F6R23 only required LMVOA analysis. The samples were also subject to Modified Analysis Request 2544.1 (MA 2544.1), which required the laboratory to analyze the samples for 19 additional compounds and lower CRQLs for the SVOA-SIM analyses. MS/MSD analyses were not requested for this case.

The SOW requires that the soil sample results be adjusted for moisture content as well as dilution when applicable. The adjusted CRQLs, higher than the CRQLs specified in the SOW and MA 2544.1, were reported by the laboratory and are referred to as SQLs in this report.

The target compounds of concern with the required CRQLs are listed on pages 61 and 62 of this report. Although both the full scan and SIM analysis results were available for all SVOA samples, the SIM analysis results are designated for use only when the corresponding full scan analysis results were non-detects or below the SQLs. Many of the target compounds of concern were reported at concentrations above the SQLs in 10 samples.

Because of high matrix background, the laboratory analyzed 10 LMVOA samples at the medium level (5 gm) with an additional 10X dilution for samples F6R05, F6R06, F6R09 - F6R11, F6R13, F6R16, and F6R23 and analyzed 10 SVOA and all SVOA-SIM samples at up to 20X dilution. The laboratory also re-extracted and reanalyzed SVOA sample F6R06 and SVOA-SIM samples F6R05, F6R06, and F6R16 at medium level (1 gm) with dilution (up to 20X) because of high target compound concentrations.

LMVOA The results associated with VDMC11 for sample F6R05 and VDMC13 for sample F6R09 were unusable because these two DMCs were not detected in the respective samples.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: Some results were qualified for 11 LMVOA, 3 SVOA, and 13 SVOA-SIM samples because of problems with holding time, calibration, laboratory contamination, DMC performance, IS performance, and quantitation. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF and reporting issues (see Resubmission Request). The laboratory response is not expected to impact the DST, so the DST included in this report is the final version.

015731

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

015732

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number

SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix

ANDATE: Sample Analysis Date

ANTIME: Sample Analysis Time

CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

015733

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

015734

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-71-8	Dichlorodifluoromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	74-87-3	Chloromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-01-4	Vinyl chloride	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	74-83-9	Bromomethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-00-3	Chloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-69-4	Trichlorofluoromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-35-4	1,1-Dichloroethene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	67-64-1	Acetone	520	U	ug/kg	520	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-15-0	Carbon disulfide	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	79-20-9	Methyl acetate	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-09-2	Methylene chloride	27	LJ	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	156-60-5	trans-1,2-Dichloroethene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	1634-04-4	Methyl tert-butyl ether	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-34-3	1,1-Dichloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	156-59-2	cis-1,2-Dichloroethene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	78-93-3	2-Butanone	520	U	ug/kg	520	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	74-97-5	Bromochloromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	67-66-3	Chloroform	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	71-55-6	1,1,1-Trichloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	110-82-7	Cyclohexane	7000	J^	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	56-23-5	Carbon tetrachloride	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	71-43-2	Benzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	107-06-2	1,2-Dichloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	79-01-6	Trichloroethene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/14/2015	15:20:00	108-87-2	Methylcyclohexane	7900		ug/kg	2600	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	78-87-5	1,2-Dichloropropane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-27-4	Bromodichloromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	10061-01-5	cis-1,3-Dichloropropene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	108-10-1	4-Methyl-2-pentanone	520	UR	ug/kg	520	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	108-88-3	Toluene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	10061-02-6	trans-1,3-Dichloropropene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	79-00-5	1,1,2-Trichloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	127-18-4	Tetrachloroethene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	591-78-6	2-Hexanone	520	UR	ug/kg	520	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	124-48-1	Dibromochloromethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	106-93-4	1,2-Dibromoethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	108-90-7	Chlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	100-41-4	Ethylbenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	95-47-6	o-Xylene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	179601-23-1	m, p-Xylene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	100-42-5	Styrene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	75-25-2	Bromoform	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	98-82-8	Isopropylbenzene	580		ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	79-34-5	1,1,2,2-Tetrachloroethane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	541-73-1	1,3-Dichlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	106-46-7	1,4-Dichlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	95-50-1	1,2-Dichlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	96-12-8	1,2-Dibromo-3-chloropropane	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	120-82-1	1,2,4-Trichlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-001	S	12/09/2015	21:08:00	87-61-6	1,2,3-Trichlorobenzene	260	U	ug/kg	260	12/07/2015	WIL-30

45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-71-8	Dichlorodifluoromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	74-87-3	Chloromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-01-4	Vinyl chloride	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	74-83-9	Bromomethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-00-3	Chloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-69-4	Trichlorofluoromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-35-4	1,1-Dichloroethene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	67-64-1	Acetone	500	U	ug/kg	500	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-15-0	Carbon disulfide	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	79-20-9	Methyl acetate	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-09-2	Methylene chloride	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	156-60-5	trans-1,2-Dichloroethene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	1634-04-4	Methyl tert-butyl ether	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-34-3	1,1-Dichloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	156-59-2	cis-1,2-Dichloroethene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	78-93-3	2-Butanone	500	U	ug/kg	500	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	74-97-5	Bromochloromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	67-66-3	Chloroform	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	71-55-6	1,1,1-Trichloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/14/2015	15:42:00	110-82-7	Cyclohexane	15000		ug/kg	3100	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	56-23-5	Carbon tetrachloride	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	71-43-2	Benzene	1500		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	107-06-2	1,2-Dichloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	79-01-6	Trichloroethene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/14/2015	15:42:00	108-87-2	Methylcyclohexane	26000		ug/kg	3100	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	78-87-5	1,2-Dichloropropane	620		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-27-4	Bromodichloromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	10061-01-5	cis-1,3-Dichloropropene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	108-10-1	4-Methyl-2-pentanone	500	U	ug/kg	500	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	108-88-3	Toluene	1700		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	10061-02-6	trans-1,3-Dichloropropene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	79-00-5	1,1,2-Trichloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	127-18-4	Tetrachloroethene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	591-78-6	2-Hexanone	500	U	ug/kg	500	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	124-48-1	Dibromochloromethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	106-93-4	1,2-Dibromoethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	108-90-7	Chlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	100-41-4	Ethylbenzene	7400		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	95-47-6	o-Xylene	2000		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	179601-23-1	m, p-Xylene	6100		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	100-42-5	Styrene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	75-25-2	Bromoform	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	98-82-8	Isopropylbenzene	1700		ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	79-34-5	1,1,2,2-Tetrachloroethane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	541-73-1	1,3-Dichlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	106-46-7	1,4-Dichlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	95-50-1	1,2-Dichlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	96-12-8	1,2-Dibromo-3-chloropropane	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	120-82-1	1,2,4-Trichlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29
45671	F6R05	F6R06	QL11018-002	S	12/09/2015	22:34:00	87-61-6	1,2,3-Trichlorobenzene	250	U	ug/kg	250	12/07/2015	WIL-29

45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-71-8	Dichlorodifluoromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	74-87-3	Chloromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-01-4	Vinyl chloride	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	74-83-9	Bromomethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-00-3	Chloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-69-4	Trichlorofluoromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-35-4	1,1-Dichloroethene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	67-64-1	Acetone	18		ug/kg	11	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-15-0	Carbon disulfide	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	79-20-9	Methyl acetate	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-09-2	Methylene chloride	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	156-60-5	trans-1,2-Dichloroethene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	1634-04-4	Methyl tert-butyl ether	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-34-3	1,1-Dichloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	156-59-2	cis-1,2-Dichloroethene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	78-93-3	2-Butanone	11	U	ug/kg	11	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	74-97-5	Bromochloromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	67-66-3	Chloroform	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	71-55-6	1,1,1-Trichloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	110-82-7	Cyclohexane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	56-23-5	Carbon tetrachloride	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	71-43-2	Benzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	107-06-2	1,2-Dichloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	79-01-6	Trichloroethene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	108-87-2	Methylcyclohexane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	78-87-5	1,2-Dichloropropane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-27-4	Bromodichloromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	10061-01-5	cis-1,3-Dichloropropene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	108-10-1	4-Methyl-2-pentanone	11	U	ug/kg	11	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	108-88-3	Toluene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	10061-02-6	trans-1,3-Dichloropropene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	79-00-5	1,1,2-Trichloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	127-18-4	Tetrachloroethene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	591-78-6	2-Hexanone	11	U	ug/kg	11	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	124-48-1	Dibromochloromethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	106-93-4	1,2-Dibromoethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	108-90-7	Chlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	100-41-4	Ethylbenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	95-47-6	o-Xylene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	179601-23-1	m, p-Xylene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	100-42-5	Styrene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	75-25-2	Bromoform	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	98-82-8	Isopropylbenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	79-34-5	1,1,2,2-Tetrachloroethane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	541-73-1	1,3-Dichlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	106-46-7	1,4-Dichlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	95-50-1	1,2-Dichlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	96-12-8	1,2-Dibromo-3-chloropropane	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	120-82-1	1,2,4-Trichlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-003	S	12/09/2015	11:48:00	87-61-6	1,2,3-Trichlorobenzene	5.7	U	ug/kg	5.7	12/07/2015	WIL-05

45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-71-8	Dichlorodifluoromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	74-87-3	Chloromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-01-4	Vinyl chloride	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	74-83-9	Bromomethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-00-3	Chloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-69-4	Trichlorofluoromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-35-4	1,1-Dichloroethene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	67-64-1	Acetone	550	U	ug/kg	550	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-15-0	Carbon disulfide	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	79-20-9	Methyl acetate	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-09-2	Methylene chloride	38	LJ	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	156-60-5	trans-1,2-Dichloroethene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	1634-04-4	Methyl tert-butyl ether	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-34-3	1,1-Dichloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	156-59-2	cis-1,2-Dichloroethene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	78-93-3	2-Butanone	550	U	ug/kg	550	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	74-97-5	Bromochloromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	67-66-3	Chloroform	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	71-55-6	1,1,1-Trichloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	110-82-7	Cyclohexane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	56-23-5	Carbon tetrachloride	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	71-43-2	Benzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	107-06-2	1,2-Dichloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	79-01-6	Trichloroethene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	108-87-2	Methylcyclohexane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	78-87-5	1,2-Dichloropropane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-27-4	Bromodichloromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	10061-01-5	cis-1,3-Dichloropropene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	108-10-1	4-Methyl-2-pentanone	550	U	ug/kg	550	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	108-88-3	Toluene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	10061-02-6	trans-1,3-Dichloropropene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	79-00-5	1,1,2-Trichloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	127-18-4	Tetrachloroethene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	591-78-6	2-Hexanone	550	U	ug/kg	550	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	124-48-1	Dibromochloromethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	106-93-4	1,2-Dibromoethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	108-90-7	Chlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	100-41-4	Ethylbenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	95-47-6	o-Xylene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	179601-23-1	m, p-Xylene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	100-42-5	Styrene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	75-25-2	Bromoform	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	98-82-8	Isopropylbenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	79-34-5	1,1,2,2-Tetrachloroethane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	541-73-1	1,3-Dichlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	106-46-7	1,4-Dichlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	95-50-1	1,2-Dichlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	96-12-8	1,2-Dibromo-3-chloropropane	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	120-82-1	1,2,4-Trichlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-004	S	12/09/2015	21:51:00	87-61-6	1,2,3-Trichlorobenzene	280	U	ug/kg	280	12/07/2015	WIL-25

45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-71-8	Dichlorodifluoromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	74-87-3	Chloromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-01-4	Vinyl chloride	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	74-83-9	Bromomethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-00-3	Chloroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-69-4	Trichlorofluoromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-35-4	1,1-Dichloroethene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	67-64-1	Acetone	580	U	ug/kg	580	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-15-0	Carbon disulfide	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	79-20-9	Methyl acetate	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-09-2	Methylene chloride	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	156-60-5	trans-1,2-Dichloroethene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	1634-04-4	Methyl tert-butyl ether	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-34-3	1,1-Dichloroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	156-59-2	cis-1,2-Dichloroethene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	78-93-3	2-Butanone	580	U	ug/kg	580	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	74-97-5	Bromochloromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	67-66-3	Chloroform	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	71-55-6	1,1,1-Trichloroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	110-82-7	Cyclohexane	2000		ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	56-23-5	Carbon tetrachloride	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	71-43-2	Benzene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	107-06-2	1,2-Dichloroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	79-01-6	Trichloroethene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/14/2015	16:04:00	108-87-2	Methylcyclohexane	10000		ug/kg	3100	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	78-87-5	1,2-Dichloropropane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-27-4	Bromodichloromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	10061-01-5	cis-1,3-Dichloropropene	290	UJv	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	108-10-1	4-Methyl-2-pentanone	580	U	ug/kg	580	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	108-88-3	Toluene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	10061-02-6	trans-1,3-Dichloropropene	290	UJv	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	79-00-5	1,1,2-Trichloroethane	290	UJv	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	127-18-4	Tetrachloroethene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	591-78-6	2-Hexanone	580	U	ug/kg	580	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	124-48-1	Dibromochloromethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	106-93-4	1,2-Dibromoethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	108-90-7	Chlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	100-41-4	Ethylbenzene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	95-47-6	o-Xylene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	179601-23-1	m, p-Xylene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	100-42-5	Styrene	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	75-25-2	Bromoform	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	98-82-8	Isopropylbenzene	2000	J^	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	79-34-5	1,1,2,2-Tetrachloroethane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	541-73-1	1,3-Dichlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	106-46-7	1,4-Dichlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	95-50-1	1,2-Dichlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	96-12-8	1,2-Dibromo-3-chloropropane	290	U	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	120-82-1	1,2,4-Trichlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-005	S	12/09/2015	23:16:00	87-61-6	1,2,3-Trichlorobenzene	290	UR	ug/kg	290	12/07/2015	TF-11-03

45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-71-8	Dichlorodifluoromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	74-87-3	Chloromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-01-4	Vinyl chloride	2700	UJ	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	74-83-9	Bromomethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-00-3	Chloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-69-4	Trichlorofluoromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-35-4	1,1-Dichloroethene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	67-64-1	Acetone	5400	U	ug/kg	5400	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-15-0	Carbon disulfide	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	79-20-9	Methyl acetate	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-09-2	Methylene chloride	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	156-60-5	trans-1,2-Dichloroethene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	1634-04-4	Methyl tert-butyl ether	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-34-3	1,1-Dichloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	156-59-2	cis-1,2-Dichloroethene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	78-93-3	2-Butanone	5400	U	ug/kg	5400	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	74-97-5	Bromochloromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	67-66-3	Chloroform	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	71-55-6	1,1,1-Trichloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	110-82-7	Cyclohexane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	56-23-5	Carbon tetrachloride	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	71-43-2	Benzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	107-06-2	1,2-Dichloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	79-01-6	Trichloroethene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	108-87-2	Methylcyclohexane	23000		ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	78-87-5	1,2-Dichloropropane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-27-4	Bromodichloromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	10061-01-5	cis-1,3-Dichloropropene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	108-10-1	4-Methyl-2-pentanone	5400	U	ug/kg	5400	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	108-88-3	Toluene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	10061-02-6	trans-1,3-Dichloropropene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	79-00-5	1,1,2-Trichloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	127-18-4	Tetrachloroethene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	591-78-6	2-Hexanone	5400	U	ug/kg	5400	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	124-48-1	Dibromochloromethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	106-93-4	1,2-Dibromoethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	108-90-7	Chlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	100-41-4	Ethylbenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	95-47-6	o-Xylene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	179601-23-1	m, p-Xylene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	100-42-5	Styrene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	75-25-2	Bromoform	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	98-82-8	Isopropylbenzene	450	LJ	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	79-34-5	1,1,2,2-Tetrachloroethane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	541-73-1	1,3-Dichlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	106-46-7	1,4-Dichlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	95-50-1	1,2-Dichlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	96-12-8	1,2-Dibromo-3-chloropropane	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	120-82-1	1,2,4-Trichlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	16:25:00	87-61-6	1,2,3-Trichlorobenzene	2700	U	ug/kg	2700	12/08/2015	TF-11-05

45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-71-8	Dichlorodifluoromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	74-87-3	Chloromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-01-4	Vinyl chloride	2600	UJ	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	74-83-9	Bromomethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-00-3	Chloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-69-4	Trichlorofluoromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-35-4	1,1-Dichloroethene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	67-64-1	Acetone	5200	U	ug/kg	5200	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-15-0	Carbon disulfide	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	79-20-9	Methyl acetate	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-09-2	Methylene chloride	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	156-60-5	trans-1,2-Dichloroethene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	1634-04-4	Methyl tert-butyl ether	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-34-3	1,1-Dichloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	156-59-2	cis-1,2-Dichloroethene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	78-93-3	2-Butanone	5200	U	ug/kg	5200	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	74-97-5	Bromochloromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	67-66-3	Chloroform	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	71-55-6	1,1,1-Trichloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	110-82-7	Cyclohexane	2800		ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	56-23-5	Carbon tetrachloride	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	71-43-2	Benzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	107-06-2	1,2-Dichloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	79-01-6	Trichloroethene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	108-87-2	Methylcyclohexane	13000		ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	78-87-5	1,2-Dichloropropane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-27-4	Bromodichloromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	10061-01-5	cis-1,3-Dichloropropene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	108-10-1	4-Methyl-2-pentanone	5200	U	ug/kg	5200	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	108-88-3	Toluene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	10061-02-6	trans-1,3-Dichloropropene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	79-00-5	1,1,2-Trichloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	127-18-4	Tetrachloroethene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	591-78-6	2-Hexanone	5200	U	ug/kg	5200	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	124-48-1	Dibromochloromethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	106-93-4	1,2-Dibromoethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	108-90-7	Chlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	100-41-4	Ethylbenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	95-47-6	o-Xylene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	179601-23-1	m, p-Xylene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	100-42-5	Styrene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	75-25-2	Bromoform	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	98-82-8	Isopropylbenzene	800	LJ	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	79-34-5	1,1,2,2-Tetrachloroethane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	541-73-1	1,3-Dichlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	106-46-7	1,4-Dichlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	95-50-1	1,2-Dichlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	96-12-8	1,2-Dibromo-3-chloropropane	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	120-82-1	1,2,4-Trichlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	16:47:00	87-61-6	1,2,3-Trichlorobenzene	2600	U	ug/kg	2600	12/08/2015	TF-12-01

45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-71-8	Dichlorodifluoromethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	74-87-3	Chloromethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-01-4	Vinyl chloride	300	UJ	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	74-83-9	Bromomethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-00-3	Chloroethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-69-4	Trichlorofluoromethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-35-4	1,1-Dichloroethene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	67-64-1	Acetone	590	U	ug/kg	590	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-15-0	Carbon disulfide	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	79-20-9	Methyl acetate	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-09-2	Methylene chloride	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	156-60-5	trans-1,2-Dichloroethene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	1634-04-4	Methyl tert-butyl ether	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-34-3	1,1-Dichloroethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	156-59-2	cis-1,2-Dichloroethene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	78-93-3	2-Butanone	590	U	ug/kg	590	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	74-97-5	Bromochloromethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	67-66-3	Chloroform	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	71-55-6	1,1,1-Trichloroethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	110-82-7	Cyclohexane	440	Jv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	56-23-5	Carbon tetrachloride	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	71-43-2	Benzene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	107-06-2	1,2-Dichloroethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	79-01-6	Trichloroethene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	108-87-2	Methylcyclohexane	1600	Jv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	78-87-5	1,2-Dichloropropane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-27-4	Bromodichloromethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	10061-01-5	cis-1,3-Dichloropropene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	108-10-1	4-Methyl-2-pentanone	590	U	ug/kg	590	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	108-88-3	Toluene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	10061-02-6	trans-1,3-Dichloropropene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	79-00-5	1,1,2-Trichloroethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	127-18-4	Tetrachloroethene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	591-78-6	2-Hexanone	590	U	ug/kg	590	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	124-48-1	Dibromochloromethane	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	106-93-4	1,2-Dibromoethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	108-90-7	Chlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	100-41-4	Ethylbenzene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	95-47-6	o-Xylene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	179601-23-1	m, p-Xylene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	100-42-5	Styrene	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	75-25-2	Bromoform	300	U	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	98-82-8	Isopropylbenzene	46	LJ	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	79-34-5	1,1,2,2-Tetrachloroethane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	541-73-1	1,3-Dichlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	106-46-7	1,4-Dichlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	95-50-1	1,2-Dichlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	96-12-8	1,2-Dibromo-3-chloropropane	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	120-82-1	1,2,4-Trichlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	17:08:00	87-61-6	1,2,3-Trichlorobenzene	300	UJv	ug/kg	300	12/08/2015	TF-12-05

45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-71-8	Dichlorodifluoromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	74-87-3	Chloromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-01-4	Vinyl chloride	3000	UJ	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	74-83-9	Bromomethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-00-3	Chloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-69-4	Trichlorofluoromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-35-4	1,1-Dichloroethene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	67-64-1	Acetone	5900	U	ug/kg	5900	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-15-0	Carbon disulfide	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	79-20-9	Methyl acetate	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-09-2	Methylene chloride	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	156-60-5	trans-1,2-Dichloroethene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	1634-04-4	Methyl tert-butyl ether	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-34-3	1,1-Dichloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	156-59-2	cis-1,2-Dichloroethene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	78-93-3	2-Butanone	5900	U	ug/kg	5900	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	74-97-5	Bromochloromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	67-66-3	Chloroform	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	71-55-6	1,1,1-Trichloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	110-82-7	Cyclohexane	7800		ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	56-23-5	Carbon tetrachloride	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	71-43-2	Benzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	107-06-2	1,2-Dichloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	79-01-6	Trichloroethene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	108-87-2	Methylcyclohexane	26000		ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	78-87-5	1,2-Dichloropropane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-27-4	Bromodichloromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	10061-01-5	cis-1,3-Dichloropropene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	108-10-1	4-Methyl-2-pentanone	5900	U	ug/kg	5900	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	108-88-3	Toluene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	10061-02-6	trans-1,3-Dichloropropene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	79-00-5	1,1,2-Trichloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	127-18-4	Tetrachloroethene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	591-78-6	2-Hexanone	5900	U	ug/kg	5900	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	124-48-1	Dibromochloromethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	106-93-4	1,2-Dibromoethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	108-90-7	Chlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	100-41-4	Ethylbenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	95-47-6	o-Xylene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	179601-23-1	m, p-Xylene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	100-42-5	Styrene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	75-25-2	Bromoform	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	98-82-8	Isopropylbenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	79-34-5	1,1,2,2-Tetrachloroethane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	541-73-1	1,3-Dichlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	106-46-7	1,4-Dichlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	95-50-1	1,2-Dichlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	96-12-8	1,2-Dibromo-3-chloropropane	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	120-82-1	1,2,4-Trichlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02
45671	F6R05	F6R13	QL11018-009	S	12/14/2015	17:30:00	87-61-6	1,2,3-Trichlorobenzene	3000	U	ug/kg	3000	12/08/2015 FD-02

45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-71-8	Dichlorodifluoromethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	74-87-3	Chloromethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-01-4	Vinyl chloride	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	74-83-9	Bromomethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-00-3	Chloroethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-69-4	Trichlorofluoromethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-35-4	1,1-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	67-64-1	Acetone	9.5	U	ug/kg	9.5	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-15-0	Carbon disulfide	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	79-20-9	Methyl acetate	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-09-2	Methylene chloride	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	156-60-5	trans-1,2-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	1634-04-4	Methyl tert-butyl ether	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-34-3	1,1-Dichloroethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	156-59-2	cis-1,2-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	78-93-3	2-Butanone	9.5	U	ug/kg	9.5	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	74-97-5	Bromochloromethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	67-66-3	Chloroform	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	71-55-6	1,1,1-Trichloroethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	110-82-7	Cyclohexane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	56-23-5	Carbon tetrachloride	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	71-43-2	Benzene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	107-06-2	1,2-Dichloroethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	79-01-6	Trichloroethene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	108-87-2	Methylcyclohexane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	78-87-5	1,2-Dichloropropane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-27-4	Bromodichloromethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	10061-01-5	cis-1,3-Dichloropropene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	108-10-1	4-Methyl-2-pentanone	9.5	U	ug/kg	9.5	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	108-88-3	Toluene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	10061-02-6	trans-1,3-Dichloropropene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	79-00-5	1,1,2-Trichloroethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	127-18-4	Tetrachloroethene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	591-78-6	2-Hexanone	9.5	U	ug/kg	9.5	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	124-48-1	Dibromochloromethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	106-93-4	1,2-Dibromoethane	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	108-90-7	Chlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	100-41-4	Ethylbenzene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	95-47-6	o-Xylene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	179601-23-1	m, p-Xylene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	100-42-5	Styrene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	75-25-2	Bromoform	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	98-82-8	Isopropylbenzene	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	79-34-5	1,1,2,2-Tetrachloroethane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	541-73-1	1,3-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	106-46-7	1,4-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	95-50-1	1,2-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	96-12-8	1,2-Dibromo-3-chloropropane	4.7	U	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	120-82-1	1,2,4-Trichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/21/2015	17:45:00	87-61-6	1,2,3-Trichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 TF-12-06

45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-71-8	Dichlorodifluoromethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	74-87-3	Chloromethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-01-4	Vinyl chloride	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	74-83-9	Bromomethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-00-3	Chloroethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-69-4	Trichlorofluoromethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-35-4	1,1-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	67-64-1	Acetone	50		ug/kg	9.4	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-15-0	Carbon disulfide	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	79-20-9	Methyl acetate	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-09-2	Methylene chloride	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	156-60-5	trans-1,2-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	1634-04-4	Methyl tert-butyl ether	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-34-3	1,1-Dichloroethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	156-59-2	cis-1,2-Dichloroethene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	78-93-3	2-Butanone	13		ug/kg	9.4	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	74-97-5	Bromochloromethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	67-66-3	Chloroform	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	71-55-6	1,1,1-Trichloroethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	110-82-7	Cyclohexane	35	Jv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	56-23-5	Carbon tetrachloride	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	71-43-2	Benzene	1.4	LJ	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	107-06-2	1,2-Dichloroethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	79-01-6	Trichloroethene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	108-87-2	Methylcyclohexane	100	Jv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	78-87-5	1,2-Dichloropropane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-27-4	Bromodichloromethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	10061-01-5	cis-1,3-Dichloropropene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	108-10-1	4-Methyl-2-pentanone	9.4	U	ug/kg	9.4	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	108-88-3	Toluene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	10061-02-6	trans-1,3-Dichloropropene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	79-00-5	1,1,2-Trichloroethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	127-18-4	Tetrachloroethene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	591-78-6	2-Hexanone	9.4	U	ug/kg	9.4	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	124-48-1	Dibromochloromethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	106-93-4	1,2-Dibromoethane	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	108-90-7	Chlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	100-41-4	Ethylbenzene	43		ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	95-47-6	o-Xylene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	179601-23-1	m, p-Xylene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	100-42-5	Styrene	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	75-25-2	Bromoform	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	98-82-8	Isopropylbenzene	25		ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	79-34-5	1,1,2,2-Tetrachloroethane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	541-73-1	1,3-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	106-46-7	1,4-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	95-50-1	1,2-Dichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	96-12-8	1,2-Dibromo-3-chloropropane	4.7	U	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	120-82-1	1,2,4-Trichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/21/2015	19:37:00	87-61-6	1,2,3-Trichlorobenzene	4.7	UJv	ug/kg	4.7	12/08/2015 WIL-20

45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-71-8	Dichlorodifluoromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	74-87-3	Chloromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-01-4	Vinyl chloride	2800	UJ	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	74-83-9	Bromomethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-00-3	Chloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-69-4	Trichlorofluoromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-35-4	1,1-Dichloroethene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	67-64-1	Acetone	5600	U	ug/kg	5600	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-15-0	Carbon disulfide	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	79-20-9	Methyl acetate	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-09-2	Methylene chloride	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	156-60-5	trans-1,2-Dichloroethene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	1634-04-4	Methyl tert-butyl ether	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-34-3	1,1-Dichloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	156-59-2	cis-1,2-Dichloroethene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	78-93-3	2-Butanone	5600	U	ug/kg	5600	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	74-97-5	Bromochloromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	67-66-3	Chloroform	4100		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	71-55-6	1,1,1-Trichloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	110-82-7	Cyclohexane	33000		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	56-23-5	Carbon tetrachloride	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	71-43-2	Benzene	1700	LJ	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	107-06-2	1,2-Dichloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	79-01-6	Trichloroethene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	108-87-2	Methylcyclohexane	110000		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	78-87-5	1,2-Dichloropropane	2200	LJ	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-27-4	Bromodichloromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	10061-01-5	cis-1,3-Dichloropropene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	108-10-1	4-Methyl-2-pentanone	5600	U	ug/kg	5600	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	108-88-3	Toluene	1900	LJ	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	10061-02-6	trans-1,3-Dichloropropene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	79-00-5	1,1,2-Trichloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	127-18-4	Tetrachloroethene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	591-78-6	2-Hexanone	5600	U	ug/kg	5600	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	124-48-1	Dibromochloromethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	106-93-4	1,2-Dibromoethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	108-90-7	Chlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	100-41-4	Ethylbenzene	47000		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	95-47-6	o-Xylene	2800	LJ	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	179601-23-1	m, p-Xylene	60000		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	100-42-5	Styrene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	75-25-2	Bromoform	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	98-82-8	Isopropylbenzene	8800		ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	79-34-5	1,1,2,2-Tetrachloroethane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	541-73-1	1,3-Dichlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	106-46-7	1,4-Dichlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	95-50-1	1,2-Dichlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	96-12-8	1,2-Dibromo-3-chloropropane	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	120-82-1	1,2,4-Trichlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/14/2015	18:35:00	87-61-6	1,2,3-Trichlorobenzene	2800	U	ug/kg	2800	12/08/2015	WIL-35

45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-71-8	Dichlorodifluoromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	74-87-3	Chloromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-01-4	Vinyl chloride	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	74-83-9	Bromomethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-00-3	Chloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-69-4	Trichlorofluoromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-35-4	1,1-Dichloroethene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	67-64-1	Acetone	8.1	LJ	ug/kg	9.8	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-15-0	Carbon disulfide	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	79-20-9	Methyl acetate	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-09-2	Methylene chloride	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	156-60-5	trans-1,2-Dichloroethene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	1634-04-4	Methyl tert-butyl ether	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-34-3	1,1-Dichloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	156-59-2	cis-1,2-Dichloroethene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	78-93-3	2-Butanone	9.8	U	ug/kg	9.8	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	74-97-5	Bromochloromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	67-66-3	Chloroform	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	71-55-6	1,1,1-Trichloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	110-82-7	Cyclohexane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	56-23-5	Carbon tetrachloride	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	71-43-2	Benzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	107-06-2	1,2-Dichloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	79-01-6	Trichloroethene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	108-87-2	Methylcyclohexane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	78-87-5	1,2-Dichloropropane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-27-4	Bromodichloromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	10061-01-5	cis-1,3-Dichloropropene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	108-10-1	4-Methyl-2-pentanone	9.8	U	ug/kg	9.8	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	108-88-3	Toluene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	10061-02-6	trans-1,3-Dichloropropene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	79-00-5	1,1,2-Trichloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	127-18-4	Tetrachloroethene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	591-78-6	2-Hexanone	9.8	U	ug/kg	9.8	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	124-48-1	Dibromochloromethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	106-93-4	1,2-Dibromoethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	108-90-7	Chlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	100-41-4	Ethylbenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	95-47-6	o-Xylene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	179601-23-1	m, p-Xylene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	100-42-5	Styrene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	75-25-2	Bromoform	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	98-82-8	Isopropylbenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	79-34-5	1,1,2,2-Tetrachloroethane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	541-73-1	1,3-Dichlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	106-46-7	1,4-Dichlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	95-50-1	1,2-Dichlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	96-12-8	1,2-Dibromo-3-chloropropane	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	120-82-1	1,2,4-Trichlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/21/2015	18:08:00	87-61-6	1,2,3-Trichlorobenzene	4.9	U	ug/kg	4.9	12/08/2015	WIL-14

45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	74-87-3	Chloromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-01-4	Vinyl chloride	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	74-83-9	Bromomethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-00-3	Chloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	67-64-1	Acetone	10	U	ug/kg	10	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-15-0	Carbon disulfide	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	79-20-9	Methyl acetate	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-09-2	Methylene chloride	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	78-93-3	2-Butanone	10	U	ug/kg	10	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	74-97-5	Bromochloromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	67-66-3	Chloroform	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	110-82-7	Cyclohexane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	56-23-5	Carbon tetrachloride	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	71-43-2	Benzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	79-01-6	Trichloroethene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	108-87-2	Methylcyclohexane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-27-4	Bromodichloromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/kg	10	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	108-88-3	Toluene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	127-18-4	Tetrachloroethene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	591-78-6	2-Hexanone	10	U	ug/kg	10	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	124-48-1	Dibromochloromethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	108-90-7	Chlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	100-41-4	Ethylbenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	95-47-6	o-Xylene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	179601-23-1	m, p-Xylene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	100-42-5	Styrene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	75-25-2	Bromoform	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	98-82-8	Isopropylbenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND
45671	F6R05	F6R19	QL11018-019	S	12/21/2015	18:31:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg	5.0	12/10/2015 P-03-SAND

45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-71-8	Dichlorodifluoromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	74-87-3	Chloromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-01-4	Vinyl chloride	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	74-83-9	Bromomethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-00-3	Chloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-69-4	Trichlorofluoromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-35-4	1,1-Dichloroethene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	67-64-1	Acetone	140			ug/kg	11	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-15-0	Carbon disulfide	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	79-20-9	Methyl acetate	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-09-2	Methylene chloride	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	156-60-5	trans-1,2-Dichloroethene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	1634-04-4	Methyl tert-butyl ether	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-34-3	1,1-Dichloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	156-59-2	cis-1,2-Dichloroethene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	78-93-3	2-Butanone	38			ug/kg	11	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	74-97-5	Bromochloromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	67-66-3	Chloroform	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	71-55-6	1,1,1-Trichloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	110-82-7	Cyclohexane	6.3			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	56-23-5	Carbon tetrachloride	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	71-43-2	Benzene	4.6		LJ	ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	107-06-2	1,2-Dichloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	79-01-6	Trichloroethene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	108-87-2	Methylcyclohexane	23			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	78-87-5	1,2-Dichloropropane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-27-4	Bromodichloromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	10061-01-5	cis-1,3-Dichloropropene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	108-10-1	4-Methyl-2-pentanone	11	U		ug/kg	11	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	108-88-3	Toluene	9.0			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	10061-02-6	trans-1,3-Dichloropropene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	79-00-5	1,1,2-Trichloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	127-18-4	Tetrachloroethene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	591-78-6	2-Hexanone	11	U		ug/kg	11	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	124-48-1	Dibromochloromethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	106-93-4	1,2-Dibromoethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	108-90-7	Chlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	100-41-4	Ethylbenzene	8.9			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	95-47-6	o-Xylene	12			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	179601-23-1	m, p-Xylene	25			ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	100-42-5	Styrene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	75-25-2	Bromoform	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	98-82-8	Isopropylbenzene	2.3		LJ	ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	79-34-5	1,1,2,2-Tetrachloroethane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	541-73-1	1,3-Dichlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	106-46-7	1,4-Dichlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	95-50-1	1,2-Dichlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	96-12-8	1,2-Dibromo-3-chloropropane	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	120-82-1	1,2,4-Trichlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10
45671	F6R05	F6R20	QL11018-020	S	12/21/2015	20:22:00	87-61-6	1,2,3-Trichlorobenzene	5.3	U		ug/kg	5.3	12/10/2015	WIL-AA-10

45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-71-8	Dichlorodifluoromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	74-87-3	Chloromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-01-4	Vinyl chloride	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	74-83-9	Bromomethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-00-3	Chloroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-69-4	Trichlorofluoromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-35-4	1,1-Dichloroethene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	67-64-1	Acetone	82		ug/kg	11	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-15-0	Carbon disulfide	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	79-20-9	Methyl acetate	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-09-2	Methylene chloride	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	156-60-5	trans-1,2-Dichloroethene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	1634-04-4	Methyl tert-butyl ether	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-34-3	1,1-Dichloroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	156-59-2	cis-1,2-Dichloroethene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	78-93-3	2-Butanone	29		ug/kg	11	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	74-97-5	Bromochloromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	67-66-3	Chloroform	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	71-55-6	1,1,1-Trichloroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	110-82-7	Cyclohexane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	56-23-5	Carbon tetrachloride	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	71-43-2	Benzene	4.1	LJ	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	107-06-2	1,2-Dichloroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	79-01-6	Trichloroethene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	108-87-2	Methylcyclohexane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	78-87-5	1,2-Dichloropropane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-27-4	Bromodichloromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	10061-01-5	cis-1,3-Dichloropropene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	108-10-1	4-Methyl-2-pentanone	11	U	ug/kg	11	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	108-88-3	Toluene	9.8		ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	10061-02-6	trans-1,3-Dichloropropene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	79-00-5	1,1,2-Trichloroethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	127-18-4	Tetrachloroethene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	591-78-6	2-Hexanone	11	U	ug/kg	11	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	124-48-1	Dibromochloromethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	106-93-4	1,2-Dibromoethane	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	108-90-7	Chlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	100-41-4	Ethylbenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	95-47-6	o-Xylene	4.6	LJ	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	179601-23-1	m, p-Xylene	7.4		ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	100-42-5	Styrene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	75-25-2	Bromoform	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	98-82-8	Isopropylbenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	79-34-5	1,1,2,2-Tetrachloroethane	5.3	UJv	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	541-73-1	1,3-Dichlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	106-46-7	1,4-Dichlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	95-50-1	1,2-Dichlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	96-12-8	1,2-Dibromo-3-chloropropane	5.3	UJv	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	120-82-1	1,2,4-Trichlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11
45671	F6R05	F6R21	QL11018-021	S	12/21/2015	18:53:00	87-61-6	1,2,3-Trichlorobenzene	5.3	U	ug/kg	5.3	12/10/2015	WIL-AA-11

45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-71-8	Dichlorodifluoromethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	74-87-3	Chloromethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-01-4	Vinyl chloride	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	74-83-9	Bromomethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-00-3	Chloroethane	350	UJ	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-69-4	Trichlorofluoromethane	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-35-4	1,1-Dichloroethene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	67-64-1	Acetone	690	U	ug/kg	690	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-15-0	Carbon disulfide	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	79-20-9	Methyl acetate	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-09-2	Methylene chloride	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	156-60-5	trans-1,2-Dichloroethene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	1634-04-4	Methyl tert-butyl ether	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-34-3	1,1-Dichloroethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	156-59-2	cis-1,2-Dichloroethene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	78-93-3	2-Butanone	690	U	ug/kg	690	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	74-97-5	Bromochloromethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	67-66-3	Chloroform	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	71-55-6	1,1,1-Trichloroethane	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	110-82-7	Cyclohexane	11000	J^	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	56-23-5	Carbon tetrachloride	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	71-43-2	Benzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	107-06-2	1,2-Dichloroethane	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	79-01-6	Trichloroethene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/21/2015	11:36:00	108-87-2	Methylcyclohexane	19000		ug/kg	3500	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	78-87-5	1,2-Dichloropropane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-27-4	Bromodichloromethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	10061-01-5	cis-1,3-Dichloropropene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	108-10-1	4-Methyl-2-pentanone	690	U	ug/kg	690	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	108-88-3	Toluene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	10061-02-6	trans-1,3-Dichloropropene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	79-00-5	1,1,2-Trichloroethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	127-18-4	Tetrachloroethene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	591-78-6	2-Hexanone	690	U	ug/kg	690	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	124-48-1	Dibromochloromethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	106-93-4	1,2-Dibromoethane	350	UJv	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	108-90-7	Chlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	100-41-4	Ethylbenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	95-47-6	o-Xylene	210	LJ	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	179601-23-1	m, p-Xylene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	100-42-5	Styrene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	75-25-2	Bromoform	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	98-82-8	Isopropylbenzene	1300	J^	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	79-34-5	1,1,2,2-Tetrachloroethane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	541-73-1	1,3-Dichlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	106-46-7	1,4-Dichlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	95-50-1	1,2-Dichlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	96-12-8	1,2-Dibromo-3-chloropropane	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	120-82-1	1,2,4-Trichlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41
45671	F6R05	F6R23	QL11018-022	S	12/16/2015	14:53:00	87-61-6	1,2,3-Trichlorobenzene	350	U	ug/kg	350	12/10/2015	WIL-41

45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	123-91-1	1,4-Dioxane	1500	U*	ug/kg	1500	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	100-52-7	Benzaldehyde	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	108-95-2	Phenol	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	111-44-4	Bis(2-Chloroethyl) ether	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	95-57-8	2-Chlorophenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	95-48-7	2-Methylphenol	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	98-86-2	Acetophenone	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	106-44-5	4-Methylphenol	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	621-64-7	N-Nitroso-di-n propylamine	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	67-72-1	Hexachloroethane	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	98-95-3	Nitrobenzene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	78-59-1	Isophorone	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	88-75-5	2-Nitrophenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	105-67-9	2,4-Dimethylphenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	111-91-1	Bis(2-chloroethoxy)methane	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	120-83-2	2,4-Dichlorophenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	91-20-3	Naphthalene	1400	*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	106-47-8	4-Chloroaniline	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	87-68-3	Hexachlorobutadiene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	105-60-2	Caprolactam	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	59-50-7	4-Chloro-3-methylphenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	91-57-6	2-Methylnaphthalene	5100	J	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	77-47-4	Hexachlorocyclo-pentadiene	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	88-06-2	2,4,6-Trichlorophenol	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	95-95-4	2,4,5-Trichlorophenol	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	92-52-4	1,1'-Biphenyl	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	91-58-7	2-Chloronaphthalene	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	88-74-4	2-Nitroaniline	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	131-11-3	Dimethylphthalate	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	606-20-2	2,6-Dinitrotoluene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	208-96-8	Acenaphthylene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	99-09-2	3-Nitroaniline	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	83-32-9	Acenaphthene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	51-28-5	2,4-Dinitrophenol	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	100-02-7	4-Nitrophenol	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	132-64-9	Dibenzofuran	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	121-14-2	2,4-Dinitrotoluene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	84-66-2	Diethylphthalate	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	86-73-7	Fluorene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	7005-72-3	4-Chlorophenyl-phenyl ether	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	100-01-6	4-Nitroaniline	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	534-52-1	4,6-Dinitro-2-methylphenol	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	86-30-6	N-Nitrosodiphenylamine	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	101-55-3	4-Bromophenyl-phenylether	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	118-74-1	Hexachlorobenzene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	1912-24-9	Atrazine	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	87-86-5	Pentachlorophenol	7300	U*	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	85-01-8	Phenanthrene	770	*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	120-12-7	Anthracene	3800	U*	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	86-74-8	Carbazole	7300	U	ug/kg	7300	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	84-74-2	Di-n-butylphthalate	3800	U	ug/kg	3800	12/07/2015 WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	206-44-0	Fluoranthene	7300	U*	ug/kg	7300	12/07/2015 WIL-30

45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	129-00-0	Pyrene	380	*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	85-68-7	Butylbenzylphthalate	3800	U	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	91-94-1	3,3'-Dichlorobenzidine	7300	U*	ug/kg	7300	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	56-55-3	Benzo(a)anthracene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	218-01-9	Chrysene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	3800	U	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	117-84-0	Di-n-octylphthalate	7300	U	ug/kg	7300	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	205-99-2	Benzo(b)fluoranthene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	207-08-9	Benzo(k)fluoranthene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	50-32-8	Benzo(a)pyrene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	53-70-3	Dibenzo(a,h)anthracene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	191-24-2	Benzo(g,h,i)perylene	3800	U*	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05	QL11018-014	S	12/15/2015	02:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	3800	U	ug/kg	3800	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	91-20-3	Naphthalene	3800	*	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	91-57-6	2-Methylnaphthalene	8200	*	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	86-73-7	Fluorene	130	J	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	87-86-5	Pentachlorophenol	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	85-01-8	Phenanthrene	1800	J	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	120-12-7	Anthracene	39	UJ	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	206-44-0	Fluoranthene	160	J	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	129-00-0	Pyrene	950		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	56-55-3	Benzo(a)anthracene	210		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	218-01-9	Chrysene	400		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	205-99-2	Benzo(b)fluoranthene	91		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	207-08-9	Benzo(k)fluoranthene	19	LJ	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	50-32-8	Benzo(a)pyrene	140		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	34	LJ	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	53-70-3	Dibenzo(a,h)anthracene	26	LJ	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	191-24-2	Benzo(g,h,i)perylene	110		ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	88-06-2	2,4,6-Trichlorophenol	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	95-94-3	1,2,4,5-Tetrachlorobenzene	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	87-68-3	Hexachlorobutadiene	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	106-47-8	4-Chloroaniline	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	98-95-3	Nitrobenzene	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	1912-24-9	Atrazine	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	108-60-1	2,2'-Oxybis(1-chloropropane)	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	111-44-4	bis(2-Chloroethyl)ether	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	51-28-5	2,4-Dinitrophenol	750	U	ug/kg	750	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	91-94-1	3,3'-Dichlorobenzidine	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	67-72-1	Hexachloroethane	75	U	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	534-52-1	4,6-Dinitro-2-methylphenol	75	UJ	ug/kg	75	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05 (SIM)	QL11018-014	S	12/18/2015	23:09:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/07/2015	WIL-30
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	91-20-3	Naphthalene	6700	J	ug/kg	580		
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	91-57-6	2-Methylnaphthalene	20000	*	ug/kg	580		
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	208-96-8	Acenaphthylene	580	U*	ug/kg	580		

45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	83-32-9	Acenaphthene	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	86-73-7	Fluorene	720	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	87-86-5	Pentachlorophenol	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	85-01-8	Phenanthrene	2700	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	120-12-7	Anthracene	820	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	206-44-0	Fluoranthene	190	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	129-00-0	Pyrene	650	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	56-55-3	Benzo(a)anthracene	140	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	218-01-9	Chrysene	280	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	205-99-2	Benzo(b)fluoranthene	64	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	207-08-9	Benzo(k)fluoranthene	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	50-32-8	Benzo(a)pyrene	110	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	193-39-5	Indeno(1,2,3-cd)pyrene	51	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	53-70-3	Dibenzo(a,h)anthracene	33	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	191-24-2	Benzo(g,h,i)perylene	190	*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	606-20-2	2,6-Dinitrotoluene	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	121-14-2	2,4-Dinitrotoluene	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	132-64-9	Dibenzofuran	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	534-52-1	4,6-Dinitro-2-methylphenol	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	118-74-1	Hexachlorobenzene	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	1912-24-9	Atrazine	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	91-94-1	3,3'-Dichlorobenzidine	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	51-28-5	2,4-Dinitrophenol	11000	U*	ug/kg	11000			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	123-91-1	1,4-Dioxane	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	111-44-4	bis(2-Chloroethyl)ether	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	621-64-7	N-Nitrosodi-n-propylamine	580	U*	ug/kg	580			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	67-72-1	Hexachloroethane	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	98-95-3	Nitrobenzene	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	106-47-8	4-Chloroaniline	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	87-68-3	Hexachlorobutadiene	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	88-06-2	2,4,6-Trichlorophenol	1100	U*	ug/kg	1100			
45671	F6R05	F6R05RX (SIM)	QL11018-014	S	12/23/2015	15:07:00	92-52-4	1,1'-Biphenyl	580	U*	ug/kg	580			
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	100-52-7	Benzaldehyde	7600	U	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	108-95-2	Phenol	7600	U	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	111-44-4	Bis(2-Chloroethyl) ether	7600	U*	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	95-48-7	2-Methylphenol	7600	U	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U*	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	98-86-2	Acetophenone	7600	U	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	106-44-5	4-Methylphenol	7600	U	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	91-20-3	Naphthalene	52000	J	ug/kg	3900	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	106-47-8	4-Chloroaniline	7600	U*	ug/kg	7600	12/07/2015	WIL-29	
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/07/2015	WIL-29	

45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	105-60-2	Caprolactam	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	59-50-7	4-Chloro-3-methylphenol	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	91-57-6	2-Methylnaphthalene	92000		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	77-47-4	Hexachlorocyclo-pentadiene	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	88-06-2	2,4,6-Trichlorophenol	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	95-95-4	2,4,5-Trichlorophenol	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	92-52-4	1,1'-Biphenyl	520		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	91-58-7	2-Chloronaphthalene	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	88-74-4	2-Nitroaniline	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	131-11-3	Dimethylphthalate	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	606-20-2	2,6-Dinitrotoluene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	208-96-8	Acenaphthylene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	99-09-2	3-Nitroaniline	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	83-32-9	Acenaphthene	5400			ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	51-28-5	2,4-Dinitrophenol	7600	U*		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	100-02-7	4-Nitrophenol	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	132-64-9	Dibenzofuran	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	121-14-2	2,4-Dinitrotoluene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	84-66-2	Diethylphthalate	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	86-73-7	Fluorene	6700			ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	100-01-6	4-Nitroaniline	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	534-52-1	4,6-Dinitro-2-methylphenol	7600	U*		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	86-30-6	N-Nitrosodiphenylamine	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	101-55-3	4-Bromophenyl-phenylether	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	118-74-1	Hexachlorobenzene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	1912-24-9	Atrazine	7600	U*		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	87-86-5	Pentachlorophenol	7600	U*		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	85-01-8	Phenanthrene	19000			ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	120-12-7	Anthracene	4500			ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	86-74-8	Carbazole	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	84-74-2	Di-n-butylphthalate	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	206-44-0	Fluoranthene	1000		*	ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	129-00-0	Pyrene	6800			ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	85-68-7	Butylbenzylphthalate	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	91-94-1	3,3'-Dichlorobenzidine	7600	U*		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	56-55-3	Benzo(a)anthracene	1300		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	218-01-9	Chrysene	2600		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	117-84-0	Di-n-octylphthalate	7600	U		ug/kg	7600	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	205-99-2	Benzo(b)fluoranthene	470		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	207-08-9	Benzo(k)fluoranthene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	50-32-8	Benzo(a)pyrene	550		*	ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	191-24-2	Benzo(g,h,i)perylene	3900	U*		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06	QL11018-015	S	12/15/2015	03:09:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U		ug/kg	3900	12/07/2015 WIL-29
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	123-91-1	1,4-Dioxane	12000	U*		ug/kg	12000	
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	100-52-7	Benzaldehyde	57000	U*		ug/kg	57000	
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	108-95-2	Phenol	57000	U*		ug/kg	57000	
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	111-44-4	Bis(2-Chloroethyl) ether	57000	U*		ug/kg	57000	
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	95-57-8	2-Chlorophenol	30000	U*		ug/kg	30000	
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	95-48-7	2-Methylphenol	57000	U*		ug/kg	57000	

45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	108-60-1	2,2'-Oxybis(1-chloropropane)	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	98-86-2	Acetophenone	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	106-44-5	4-Methylphenol	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	621-64-7	N-Nitroso-di-n propylamine	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	67-72-1	Hexachloroethane	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	98-95-3	Nitrobenzene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	78-59-1	Isophorone	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	88-75-5	2-Nitrophenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	105-67-9	2,4-Dimethylphenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	111-91-1	Bis(2-chloroethoxy)methane	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	120-83-2	2,4-Dichlorophenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	91-20-3	Naphthalene	130000	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	106-47-8	4-Chloroaniline	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	87-68-3	Hexachlorobutadiene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	105-60-2	Caprolactam	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	59-50-7	4-Chloro-3-methylphenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	91-57-6	2-Methylnaphthalene	300000	J	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	77-47-4	Hexachlorocyclo-pentadiene	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	88-06-2	2,4,6-Trichlorophenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	95-95-4	2,4,5-Trichlorophenol	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	92-52-4	1,1'-Biphenyl	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	91-58-7	2-Chloronaphthalene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	88-74-4	2-Nitroaniline	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	131-11-3	Dimethylphthalate	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	606-20-2	2,6-Dinitrotoluene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	208-96-8	Acenaphthylene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	99-09-2	3-Nitroaniline	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	83-32-9	Acenaphthene	5100	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	51-28-5	2,4-Dinitrophenol	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	100-02-7	4-Nitrophenol	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	132-64-9	Dibenzofuran	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	121-14-2	2,4-Dinitrotoluene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	84-66-2	Diethylphthalate	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	86-73-7	Fluorene	6100	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	7005-72-3	4-Chlorophenyl-phenyl ether	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	100-01-6	4-Nitroaniline	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	534-52-1	4,6-Dinitro-2-methylphenol	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	86-30-6	N-Nitrosodiphenylamine	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	95-94-3	1,2,4,5-Tetrachlorobenzene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	101-55-3	4-Bromophenyl-phenylether	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	118-74-1	Hexachlorobenzene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	1912-24-9	Atrazine	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	87-86-5	Pentachlorophenol	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	85-01-8	Phenanthrene	21000	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	120-12-7	Anthracene	4300	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	86-74-8	Carbazole	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	84-74-2	Di-n-butylphthalate	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	206-44-0	Fluoranthene	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	129-00-0	Pyrene	7300	*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	85-68-7	Butylbenzylphthalate	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	91-94-1	3,3'-Dichlorobenzidine	57000	U*	ug/kg	57000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	56-55-3	Benzo(a)anthracene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	218-01-9	Chrysene	30000	U*	ug/kg	30000
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	117-81-7	Bis(2-ethylhexyl)phthalate	30000	U*	ug/kg	30000

45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	117-84-0	Di-n-octylphthalate	57000	U*	ug/kg	57000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	205-99-2	Benzo(b)fluoranthene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	207-08-9	Benzo(k)fluoranthene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	50-32-8	Benzo(a)pyrene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	193-39-5	Indeno(1,2,3-cd)pyrene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	53-70-3	Dibenzo(a,h)anthracene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	191-24-2	Benzo(g,h,i)perylene	30000	U*	ug/kg	30000			
45671	F6R05	F6R06RX	QL11018-015	S	12/23/2015	11:44:00	58-90-2	2,3,4,6-Tetrachlorophenol	30000	U*	ug/kg	30000			
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	91-20-3	Naphthalene	8300	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	91-57-6	2-Methylnaphthalene	17000	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	83-32-9	Acenaphthene	2900	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	86-73-7	Fluorene	3400	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	85-01-8	Phenanthrene	9500	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	120-12-7	Anthracene	4900	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	206-44-0	Fluoranthene	1700		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	129-00-0	Pyrene	6800	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	56-55-3	Benzo(a)anthracene	2300		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	218-01-9	Chrysene	4000	*	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	205-99-2	Benzo(b)fluoranthene	750		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	207-08-9	Benzo(k)fluoranthene	160		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	50-32-8	Benzo(a)pyrene	1000		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	193-39-5	Indeno(1,2,3-cd)pyrene	180		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	53-70-3	Dibenzo(a,h)anthracene	200		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	191-24-2	Benzo(g,h,i)perylene	330		ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	123-91-1	1,4-Dioxane	3.4	LJ	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	92-52-4	1,1'-Biphenyl	200	J	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06 (SIM)	QL11018-015	S	12/18/2015	23:35:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/07/2015	WIL-29	
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	91-20-3	Naphthalene	170000	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	91-57-6	2-Methylnaphthalene	330000	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	208-96-8	Acenaphthylene	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	83-32-9	Acenaphthene	7100	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	86-73-7	Fluorene	9500	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	87-86-5	Pentachlorophenol	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	85-01-8	Phenanthrene	31000	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	120-12-7	Anthracene	8100	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	206-44-0	Fluoranthene	2000	*	ug/kg	1200			

45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	129-00-0	Pyrene	10000	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	56-55-3	Benzo(a)anthracene	2100	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	218-01-9	Chrysene	3800	J	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	205-99-2	Benzo(b)fluoranthene	620	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	207-08-9	Benzo(k)fluoranthene	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	50-32-8	Benzo(a)pyrene	820	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	260	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	53-70-3	Dibenzo(a,h)anthracene	270	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	191-24-2	Benzo(g,h,i)perylene	590	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	51-28-5	2,4-Dinitrophenol	23000	U*	ug/kg	23000			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	123-91-1	1,4-Dioxane	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	111-44-4	bis(2-Chloroethyl)ether	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	621-64-7	N-Nitrosodi-n-propylamine	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	67-72-1	Hexachloroethane	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	98-95-3	Nitrobenzene	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	106-47-8	4-Chloroaniline	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	87-68-3	Hexachlorobutadiene	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	88-06-2	2,4,6-Trichlorophenol	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	92-52-4	1,1'-Biphenyl	640	*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	606-20-2	2,6-Dinitrotoluene	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	121-14-2	2,4-Dinitrotoluene	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	132-64-9	Dibenzofuran	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	534-52-1	4,6-Dinitro-2-methylphenol	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	118-74-1	Hexachlorobenzene	1200	U*	ug/kg	1200			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	1912-24-9	Atrazine	2300	U*	ug/kg	2300			
45671	F6R05	F6R06RX (SIM)	QL11018-015	S	12/23/2015	15:34:00	91-94-1	3,3'-Dichlorobenzidine	2300	U*	ug/kg	2300			
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	123-91-1	1,4-Dioxane	82	U*	ug/kg	82	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	100-52-7	Benzaldehyde	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	108-95-2	Phenol	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	111-44-4	Bis(2-Chloroethyl) ether	390	U*	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	95-48-7	2-Methylphenol	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	108-60-1	2,2'-Oxybis(1-chloropropane)	390	U*	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	98-86-2	Acetophenone	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	106-44-5	4-Methylphenol	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	621-64-7	N-Nitroso-di-n propylamine	200	U*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	67-72-1	Hexachloroethane	200	U*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	98-95-3	Nitrobenzene	200	U*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	78-59-1	Isophorone	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	91-20-3	Naphthalene	22	*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	106-47-8	4-Chloroaniline	390	U*	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	87-68-3	Hexachlorobutadiene	200	U*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	105-60-2	Caprolactam	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	91-57-6	2-Methylnaphthalene	30	*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	77-47-4	Hexachlorocyclo-pentadiene	390	U	ug/kg	390	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	88-06-2	2,4,6-Trichlorophenol	200	U*	ug/kg	200	12/07/2015	WIL-05	
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	12/07/2015	WIL-05	

45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	92-52-4	1,1'-Biphenyl	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	88-74-4	2-Nitroaniline	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	606-20-2	2,6-Dinitrotoluene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	51-28-5	2,4-Dinitrophenol	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	132-64-9	Dibenzofuran	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	121-14-2	2,4-Dinitrotoluene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	86-73-7	Fluorene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	7005-72-3	4-Chlorophenyl-phenyl ether	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	118-74-1	Hexachlorobenzene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	1912-24-9	Atrazine	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	120-12-7	Anthracene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	86-74-8	Carbazole	390	U	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	206-44-0	Fluoranthene	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	129-00-0	Pyrene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	91-94-1	3,3'-Dichlorobenzidine	390	U*	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	218-01-9	Chrysene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	117-84-0	Di-n-octylphthalate	390	U	ug/kg	390	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07	QL11018-016	S	12/23/2015	16:04:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	91-20-3	Naphthalene	40	UM	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	91-57-6	2-Methylnaphthalene	71	UM	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	208-96-8	Acenaphthylene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	83-32-9	Acenaphthene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	86-73-7	Fluorene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	85-01-8	Phenanthrene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	120-12-7	Anthracene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	206-44-0	Fluoranthene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	129-00-0	Pyrene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	56-55-3	Benzo(a)anthracene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	218-01-9	Chrysene	40	U	ug/kg	40	12/07/2015	WIL-05

45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	205-99-2	Benzo(b)fluoranthene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	207-08-9	Benzo(k)fluoranthene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	50-32-8	Benzo(a)pyrene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	193-39-5	Indeno(1,2,3-cd)pyrene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	53-70-3	Dibenzo(a,h)anthracene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	191-24-2	Benzo(g,h,i)perylene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	132-64-9	Dibenzofuran	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	51-28-5	2,4-Dinitrophenol	770	U	ug/kg	770	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/07/2015	WIL-05
45671	F6R05	F6R07 (SIM)	QL11018-016	S	12/19/2015	00:01:00	92-52-4	1,1'-Biphenyl	40	U	ug/kg	40	12/07/2015	WIL-05
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	123-91-1	1,4-Dioxane	400	U*	ug/kg	400	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	100-52-7	Benzaldehyde	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	108-95-2	Phenol	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	111-44-4	Bis(2-Chloroethyl) ether	1900	U*	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	95-57-8	2-Chlorophenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	95-48-7	2-Methylphenol	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U*	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	98-86-2	Acetophenone	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	106-44-5	4-Methylphenol	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	621-64-7	N-Nitroso-di-n propylamine	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	67-72-1	Hexachloroethane	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	98-95-3	Nitrobenzene	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	78-59-1	Isophorone	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	88-75-5	2-Nitrophenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	105-67-9	2,4-Dimethylphenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	111-91-1	Bis(2-chloroethoxy)methane	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	120-83-2	2,4-Dichlorophenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	91-20-3	Naphthalene	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	106-47-8	4-Chloroaniline	1900	U*	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	87-68-3	Hexachlorobutadiene	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	105-60-2	Caprolactam	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	59-50-7	4-Chloro-3-methylphenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	91-57-6	2-Methylnaphthalene	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	77-47-4	Hexachlorocyclo-pentadiene	1900	U	ug/kg	1900	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	88-06-2	2,4,6-Trichlorophenol	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	95-95-4	2,4,5-Trichlorophenol	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	92-52-4	1,1'-Biphenyl	970	U*	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	91-58-7	2-Chloronaphthalene	970	U	ug/kg	970	12/07/2015	WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	88-74-4	2-Nitroaniline	970	U	ug/kg	970	12/07/2015	WIL-25

45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	131-11-3	Dimethylphthalate	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	606-20-2	2,6-Dinitrotoluene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	208-96-8	Acenaphthylene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	99-09-2	3-Nitroaniline	1900	U	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	83-32-9	Acenaphthene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	51-28-5	2,4-Dinitrophenol	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	100-02-7	4-Nitrophenol	1900	U	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	132-64-9	Dibenzofuran	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	121-14-2	2,4-Dinitrotoluene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	84-66-2	Diethylphthalate	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	86-73-7	Fluorene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	7005-72-3	4-Chlorophenyl-phenyl ether	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	100-01-6	4-Nitroaniline	1900	U	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	534-52-1	4,6-Dinitro-2-methylphenol	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	86-30-6	N-Nitrosodiphenylamine	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	95-94-3	1,2,4,5-Tetrachlorobenzene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	101-55-3	4-Bromophenyl-phenylether	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	118-74-1	Hexachlorobenzene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	1912-24-9	Atrazine	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	87-86-5	Pentachlorophenol	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	85-01-8	Phenanthrene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	120-12-7	Anthracene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	86-74-8	Carbazole	1900	U	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	84-74-2	Di-n-butylphthalate	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	206-44-0	Fluoranthene	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	129-00-0	Pyrene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	85-68-7	Butylbenzylphthalate	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	91-94-1	3,3'-Dichlorobenzidine	1900	U*	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	56-55-3	Benzo(a)anthracene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	218-01-9	Chrysene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	117-81-7	Bis(2-ethylhexyl)phthalate	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	117-84-0	Di-n-octylphthalate	1900	U	ug/kg	1900	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	205-99-2	Benzo(b)fluoranthene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	207-08-9	Benzo(k)fluoranthene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	50-32-8	Benzo(a)pyrene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	53-70-3	Dibenzo(a,h)anthracene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	191-24-2	Benzo(g,h,i)perylene	970	U*	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08	QL11018-017	S	12/23/2015	16:33:00	58-90-2	2,3,4,6-Tetrachlorophenol	970	U	ug/kg	970	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	91-20-3	Naphthalene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	91-57-6	2-Methylnaphthalene	72	UM	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	86-73-7	Fluorene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	85-01-8	Phenanthrene	32	LJ	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	120-12-7	Anthracene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	129-00-0	Pyrene	49		ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	218-01-9	Chrysene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/07/2015 WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/07/2015 WIL-25

45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R08 (SIM)	QL11018-017	S	12/19/2015	00:27:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/07/2015	WIL-25
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	100-52-7	Benzaldehyde	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	108-95-2	Phenol	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	111-44-4	Bis(2-Chloroethyl) ether	7700	U*	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	95-57-8	2-Chlorophenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	95-48-7	2-Methylphenol	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7700	U*	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	98-86-2	Acetophenone	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	106-44-5	4-Methylphenol	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	621-64-7	N-Nitroso-di-n propylamine	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	67-72-1	Hexachloroethane	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	98-95-3	Nitrobenzene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	78-59-1	Isophorone	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	88-75-5	2-Nitrophenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	105-67-9	2,4-Dimethylphenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	111-91-1	Bis(2-chloroethoxy)methane	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	120-83-2	2,4-Dichlorophenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	91-20-3	Naphthalene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	106-47-8	4-Chloroaniline	7700	U*	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	87-68-3	Hexachlorobutadiene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	105-60-2	Caprolactam	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	59-50-7	4-Chloro-3-methylphenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	91-57-6	2-Methylnaphthalene	970	*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	77-47-4	Hexachlorocyclo-pentadiene	7700	U	ug/kg	7700	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	88-06-2	2,4,6-Trichlorophenol	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	95-95-4	2,4,5-Trichlorophenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	92-52-4	1,1'-Biphenyl	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	91-58-7	2-Chloronaphthalene	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	88-74-4	2-Nitroaniline	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	131-11-3	Dimethylphthalate	4000	U	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	606-20-2	2,6-Dinitrotoluene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	208-96-8	Acenaphthylene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03

45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	99-09-2	3-Nitroaniline	7700	U	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	83-32-9	Acenaphthene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	51-28-5	2,4-Dinitrophenol	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	100-02-7	4-Nitrophenol	7700	U	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	132-64-9	Dibenzofuran	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	121-14-2	2,4-Dinitrotoluene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	84-66-2	Diethylphthalate	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	86-73-7	Fluorene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	7005-72-3	4-Chlorophenyl-phenyl ether	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	100-01-6	4-Nitroaniline	7700	U	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	534-52-1	4,6-Dinitro-2-methylphenol	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	86-30-6	N-Nitrosodiphenylamine	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	101-55-3	4-Bromophenyl-phenylether	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	118-74-1	Hexachlorobenzene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	1912-24-9	Atrazine	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	87-86-5	Pentachlorophenol	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	85-01-8	Phenanthrene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	120-12-7	Anthracene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	86-74-8	Carbazole	7700	U	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	84-74-2	Di-n-butylphthalate	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	206-44-0	Fluoranthene	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	129-00-0	Pyrene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	85-68-7	Butylbenzylphthalate	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	91-94-1	3,3'-Dichlorobenzidine	7700	U*	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	56-55-3	Benzo(a)anthracene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	218-01-9	Chrysene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	117-81-7	Bis(2-ethylhexyl)phthalate	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	117-84-0	Di-n-octylphthalate	7700	U	ug/kg	7700	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	205-99-2	Benzo(b)fluoranthene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	207-08-9	Benzo(k)fluoranthene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	50-32-8	Benzo(a)pyrene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	53-70-3	Dibenzo(a,h)anthracene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	191-24-2	Benzo(g,h,i)perylene	4000	U*	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09	QL11018-018	S	12/15/2015	04:33:00	58-90-2	2,3,4,6-Tetrachlorophenol	4000	U	ug/kg	4000	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	91-20-3	Naphthalene	120	UM	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	91-57-6	2-Methylnaphthalene	1500		ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	86-73-7	Fluorene	120		ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	85-01-8	Phenanthrene	550		ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	120-12-7	Anthracene	110		ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	129-00-0	Pyrene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	218-01-9	Chrysene	48		ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	205-99-2	Benzo(b)fluoranthene	17	LJ	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/07/2015	TF-11-03	
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/07/2015	TF-11-03	

45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	51-28-5	2,4-Dinitrophenol	770	U	ug/kg	770	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/07/2015	TF-11-03
45671	F6R05	F6R09 (SIM)	QL11018-018	S	12/19/2015	00:54:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/07/2015	TF-11-03
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	100-52-7	Benzaldehyde	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	108-95-2	Phenol	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	111-44-4	Bis(2-Chloroethyl) ether	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	95-48-7	2-Methylphenol	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	98-86-2	Acetophenone	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	106-44-5	4-Methylphenol	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	91-20-3	Naphthalene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	106-47-8	4-Chloroaniline	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	105-60-2	Caprolactam	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	91-57-6	2-Methylnaphthalene	470	*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	77-47-4	Hexachlorocyclo-pentadiene	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	99-09-2	3-Nitroaniline	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	51-28-5	2,4-Dinitrophenol	7600	U*	ug/kg	7600	12/08/2015	TF-11-05

45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	100-02-7	4-Nitrophenol	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	100-01-6	4-Nitroaniline	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	534-52-1	4,6-Dinitro-2-methylphenol	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	1912-24-9	Atrazine	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	87-86-5	Pentachlorophenol	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	85-01-8	Phenanthrene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	86-74-8	Carbazole	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	206-44-0	Fluoranthene	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	91-94-1	3,3'-Dichlorobenzidine	7600	U*	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	117-84-0	Di-n-octylphthalate	7600	U	ug/kg	7600	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10	QL11018-006	S	12/14/2015	22:53:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	91-20-3	Naphthalene	79	UM	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	91-57-6	2-Methylnaphthalene	1000		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	86-73-7	Fluorene	110		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	85-01-8	Phenanthrene	360		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	120-12-7	Anthracene	93		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	206-44-0	Fluoranthene	22	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	129-00-0	Pyrene	96		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	56-55-3	Benzo(a)anthracene	20	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	218-01-9	Chrysene	69		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	205-99-2	Benzo(b)fluoranthene	40		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	207-08-9	Benzo(k)fluoranthene	16	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	50-32-8	Benzo(a)pyrene	32	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	193-39-5	Indeno(1,2,3-cd)pyrene	26	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	191-24-2	Benzo(g,h,i)perylene	52		ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/08/2015	TF-11-05

45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	51-28-5	2,4-Dinitrophenol	770	U	ug/kg	770	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	132-64-9	Dibenzofuran	37	LJ	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/08/2015	TF-11-05
45671	F6R05	F6R10 (SIM)	QL11018-006	S	12/18/2015	19:40:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/08/2015	TF-11-05
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	100-52-7	Benzaldehyde	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	108-95-2	Phenol	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	111-44-4	Bis(2-Chloroethyl) ether	7400	U*	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	95-57-8	2-Chlorophenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	95-48-7	2-Methylphenol	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7400	U*	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	98-86-2	Acetophenone	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	106-44-5	4-Methylphenol	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	621-64-7	N-Nitroso-di-n propylamine	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	67-72-1	Hexachloroethane	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	98-95-3	Nitrobenzene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	78-59-1	Isophorone	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	88-75-5	2-Nitrophenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	105-67-9	2,4-Dimethylphenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	111-91-1	Bis(2-chloroethoxy)methane	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	120-83-2	2,4-Dichlorophenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	91-20-3	Naphthalene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	106-47-8	4-Chloroaniline	7400	U*	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	87-68-3	Hexachlorobutadiene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	105-60-2	Caprolactam	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	59-50-7	4-Chloro-3-methylphenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	91-57-6	2-Methylnaphthalene	500	*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	77-47-4	Hexachlorocyclo-pentadiene	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	88-06-2	2,4,6-Trichlorophenol	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	95-95-4	2,4,5-Trichlorophenol	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	92-52-4	1,1'-Biphenyl	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	91-58-7	2-Chloronaphthalene	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	88-74-4	2-Nitroaniline	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	131-11-3	Dimethylphthalate	3800	U	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	606-20-2	2,6-Dinitrotoluene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	208-96-8	Acenaphthylene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	99-09-2	3-Nitroaniline	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	83-32-9	Acenaphthene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	51-28-5	2,4-Dinitrophenol	7400	U*	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	100-02-7	4-Nitrophenol	7400	U	ug/kg	7400	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	132-64-9	Dibenzofuran	3800	U*	ug/kg	3800	12/08/2015	TF-12-01
45671	F6R05	F6R11	QL11018-007	S	12/14/2015	23:21:00	121-14-2	2,4-Dinitrotoluene	3800	U*	ug/kg	3800	12/08/2015	TF-12-01

45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	84-66-2	Diethylphthalate	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	86-73-7	Fluorene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	7005-72-3	4-Chlorophenyl-phenyl ether	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	100-01-6	4-Nitroaniline	7400	U	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	534-52-1	4,6-Dinitro-2-methylphenol	7400	U*	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	86-30-6	N-Nitrosodiphenylamine	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	101-55-3	4-Bromophenyl-phenylether	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	118-74-1	Hexachlorobenzene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	1912-24-9	Atrazine	7400	U*	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	87-86-5	Pentachlorophenol	7400	U*	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	85-01-8	Phenanthrene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	120-12-7	Anthracene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	86-74-8	Carbazole	7400	U	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	84-74-2	Di-n-butylphthalate	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	206-44-0	Fluoranthene	7400	U*	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	129-00-0	Pyrene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	85-68-7	Butylbenzylphthalate	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	91-94-1	3,3'-Dichlorobenzidine	7400	U*	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	56-55-3	Benzo(a)anthracene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	218-01-9	Chrysene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	117-81-7	Bis(2-ethylhexyl)phthalate	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	117-84-0	Di-n-octylphthalate	7400	U	ug/kg	7400	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	205-99-2	Benzo(b)fluoranthene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	207-08-9	Benzo(k)fluoranthene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	50-32-8	Benzo(a)pyrene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	193-39-5	Indeno(1,2,3-cd)pyrene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	53-70-3	Dibenzo(a,h)anthracene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	191-24-2	Benzo(g,h,i)perylene	3800	U*	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11		QL11018-007	S	12/14/2015	23:21:00	58-90-2	2,3,4,6-Tetrachlorophenol	3800	U	ug/kg	3800	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	91-20-3	Naphthalene	85	UM	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	91-57-6	2-Methylnaphthalene	800		ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	86-73-7	Fluorene	88		ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	85-01-8	Phenanthrene	440		ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	120-12-7	Anthracene	77		ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	129-00-0	Pyrene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	218-01-9	Chrysene	35	LJ	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	132-64-9	Dibenzofuran	30	LJ	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/08/2015 TF-12-01
45671	F6R05	F6R11	(SIM)	QL11018-007	S	12/18/2015	20:06:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/08/2015 TF-12-01

45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R11 (SIM)	QL11018-007	S	12/18/2015	20:06:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/08/2015	TF-12-01
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	100-52-7	Benzaldehyde	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	108-95-2	Phenol	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	111-44-4	Bis(2-Chloroethyl) ether	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	95-48-7	2-Methylphenol	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	98-86-2	Acetophenone	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	106-44-5	4-Methylphenol	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	91-20-3	Naphthalene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	106-47-8	4-Chloroaniline	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	105-60-2	Caprolactam	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	91-57-6	2-Methylnaphthalene	710	*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	77-47-4	Hexachlorocyclo-pentadiene	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	99-09-2	3-Nitroaniline	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	51-28-5	2,4-Dinitrophenol	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	100-02-7	4-Nitrophenol	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/08/2015	TF-12-05

45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	100-01-6	4-Nitroaniline	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	534-52-1	4,6-Dinitro-2-methylphenol	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	1912-24-9	Atrazine	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	87-86-5	Pentachlorophenol	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	85-01-8	Phenanthrene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	86-74-8	Carbazole	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	206-44-0	Fluoranthene	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	91-94-1	3,3'-Dichlorobenzidine	7500	U*	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	117-84-0	Di-n-octylphthalate	7500	U	ug/kg	7500	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12	QL11018-008	S	12/14/2015	23:49:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	91-20-3	Naphthalene	240		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	91-57-6	2-Methylnaphthalene	1800		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	208-96-8	Acenaphthylene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	83-32-9	Acenaphthene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	86-73-7	Fluorene	230		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	87-86-5	Pentachlorophenol	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	85-01-8	Phenanthrene	700		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	120-12-7	Anthracene	120		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	206-44-0	Fluoranthene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	129-00-0	Pyrene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	56-55-3	Benzo(a)anthracene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	218-01-9	Chrysene	72		ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	205-99-2	Benzo(b)fluoranthene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	207-08-9	Benzo(k)fluoranthene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	50-32-8	Benzo(a)pyrene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	53-70-3	Dibenzo(a,h)anthracene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	191-24-2	Benzo(g,h,i)perylene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	108-60-1	2,2'-Oxybis(1-chloropropane)	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	621-64-7	N-Nitrosodi-n-propylamine	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	67-72-1	Hexachloroethane	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	95-94-3	1,2,4,5-Tetrachlorobenzene	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	88-06-2	2,4,6-Trichlorophenol	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	92-52-4	1,1'-Biphenyl	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	606-20-2	2,6-Dinitrotoluene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	121-14-2	2,4-Dinitrotoluene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	132-64-9	Dibenzofuran	38	U	ug/kg	38	12/08/2015	TF-12-05

015769

45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	534-52-1	4,6-Dinitro-2-methylphenol	74	UJ	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	118-74-1	Hexachlorobenzene	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	1912-24-9	Atrazine	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	91-94-1	3,3'-Dichlorobenzidine	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	98-95-3	Nitrobenzene	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	106-47-8	4-Chloroaniline	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	111-44-4	bis(2-Chloroethyl)ether	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	87-68-3	Hexachlorobutadiene	74	U	ug/kg	74	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	51-28-5	2,4-Dinitrophenol	740	U	ug/kg	740	12/08/2015	TF-12-05
45671	F6R05	F6R12 (SIM)	QL11018-008	S	12/18/2015	20:32:00	123-91-1	1,4-Dioxane	38	U	ug/kg	38	12/08/2015	TF-12-05
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	100-52-7	Benzaldehyde	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	108-95-2	Phenol	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	111-44-4	Bis(2-Chloroethyl) ether	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	95-57-8	2-Chlorophenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	95-48-7	2-Methylphenol	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	98-86-2	Acetophenone	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	106-44-5	4-Methylphenol	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	621-64-7	N-Nitroso-di-n propylamine	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	67-72-1	Hexachloroethane	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	98-95-3	Nitrobenzene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	78-59-1	Isophorone	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	88-75-5	2-Nitrophenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	105-67-9	2,4-Dimethylphenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	111-91-1	Bis(2-chloroethoxy)methane	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	120-83-2	2,4-Dichlorophenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	91-20-3	Naphthalene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	106-47-8	4-Chloroaniline	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	87-68-3	Hexachlorobutadiene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	105-60-2	Caprolactam	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	59-50-7	4-Chloro-3-methylphenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	91-57-6	2-Methylnaphthalene	870	*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	77-47-4	Hexachlorocyclo-pentadiene	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	88-06-2	2,4,6-Trichlorophenol	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	95-95-4	2,4,5-Trichlorophenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	92-52-4	1,1'-Biphenyl	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	91-58-7	2-Chloronaphthalene	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	88-74-4	2-Nitroaniline	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	131-11-3	Dimethylphthalate	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	606-20-2	2,6-Dinitrotoluene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	208-96-8	Acenaphthylene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	99-09-2	3-Nitroaniline	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	83-32-9	Acenaphthene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	51-28-5	2,4-Dinitrophenol	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	100-02-7	4-Nitrophenol	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	132-64-9	Dibenzofuran	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	121-14-2	2,4-Dinitrotoluene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	84-66-2	Diethylphthalate	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	86-73-7	Fluorene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	7005-72-3	4-Chlorophenyl-phenyl ether	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	100-01-6	4-Nitroaniline	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	534-52-1	4,6-Dinitro-2-methylphenol	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	86-30-6	N-Nitrosodiphenylamine	4000	U	ug/kg	4000	12/08/2015	FD-02

45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	101-55-3	4-Bromophenyl-phenylether	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	118-74-1	Hexachlorobenzene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	1912-24-9	Atrazine	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	87-86-5	Pentachlorophenol	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	85-01-8	Phenanthrene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	120-12-7	Anthracene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	86-74-8	Carbazole	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	84-74-2	Di-n-butylphthalate	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	206-44-0	Fluoranthene	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	129-00-0	Pyrene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	85-68-7	Butylbenzylphthalate	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	91-94-1	3,3'-Dichlorobenzidine	7700	U*	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	56-55-3	Benzo(a)anthracene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	218-01-9	Chrysene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	117-81-7	Bis(2-ethylhexyl)phthalate	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	117-84-0	Di-n-octylphthalate	7700	U	ug/kg	7700	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	205-99-2	Benzo(b)fluoranthene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	207-08-9	Benzo(k)fluoranthene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	50-32-8	Benzo(a)pyrene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	193-39-5	Indeno(1,2,3-cd)pyrene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	53-70-3	Dibenzo(a,h)anthracene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	191-24-2	Benzo(g,h,i)perylene	4000	U*	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13	QL11018-009	S	12/15/2015	00:18:00	58-90-2	2,3,4,6-Tetrachlorophenol	4000	U	ug/kg	4000	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	91-20-3	Naphthalene	240		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	91-57-6	2-Methylnaphthalene	1900		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	86-73-7	Fluorene	270		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	85-01-8	Phenanthrene	780		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	120-12-7	Anthracene	150		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	129-00-0	Pyrene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	218-01-9	Chrysene	88		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	205-99-2	Benzo(b)fluoranthene	20	LJ	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	132-64-9	Dibenzofuran	86		ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	534-52-1	4,6-Dinitro-2-methylphenol	76	UJ	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/08/2015	FD-02

45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R13 (SIM)	QL11018-009	S	12/18/2015	20:58:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/08/2015	FD-02
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	123-91-1	1,4-Dioxane	76	U*	ug/kg	76	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	100-52-7	Benzaldehyde	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	108-95-2	Phenol	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	111-44-4	Bis(2-Chloroethyl) ether	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	95-57-8	2-Chlorophenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	95-48-7	2-Methylphenol	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	108-60-1	2,2'-Oxybis(1-chloropropane)	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	98-86-2	Acetophenone	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	106-44-5	4-Methylphenol	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	621-64-7	N-Nitroso-di-n propylamine	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	67-72-1	Hexachloroethane	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	98-95-3	Nitrobenzene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	78-59-1	Isophorone	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	88-75-5	2-Nitrophenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	105-67-9	2,4-Dimethylphenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	120-83-2	2,4-Dichlorophenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	91-20-3	Naphthalene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	106-47-8	4-Chloroaniline	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	87-68-3	Hexachlorobutadiene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	105-60-2	Caprolactam	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	91-57-6	2-Methylnaphthalene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	77-47-4	Hexachlorocyclo-pentadiene	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	88-06-2	2,4,6-Trichlorophenol	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	92-52-4	1,1'-Biphenyl	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	91-58-7	2-Chloronaphthalene	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	88-74-4	2-Nitroaniline	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	131-11-3	Dimethylphthalate	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	606-20-2	2,6-Dinitrotoluene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	208-96-8	Acenaphthylene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	99-09-2	3-Nitroaniline	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	83-32-9	Acenaphthene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	51-28-5	2,4-Dinitrophenol	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	100-02-7	4-Nitrophenol	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	132-64-9	Dibenzofuran	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	121-14-2	2,4-Dinitrotoluene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	84-66-2	Diethylphthalate	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	86-73-7	Fluorene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	7005-72-3	4-Chlorophenyl-phenyl ether	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	100-01-6	4-Nitroaniline	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	534-52-1	4,6-Dinitro-2-methylphenol	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	86-30-6	N-Nitrosodiphenylamine	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	95-94-3	1,2,4,5-Tetrachlorobenzene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	101-55-3	4-Bromophenyl-phenylether	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	118-74-1	Hexachlorobenzene	180	U*	ug/kg	180	12/08/2015	TF-12-06

45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	1912-24-9	Atrazine	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	87-86-5	Pentachlorophenol	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	85-01-8	Phenanthrene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	120-12-7	Anthracene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	86-74-8	Carbazole	360	U	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	84-74-2	Di-n-butylphthalate	88	LJ	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	206-44-0	Fluoranthene	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	129-00-0	Pyrene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	85-68-7	Butylbenzylphthalate	910		ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	91-94-1	3,3'-Dichlorobenzidine	360	U*	ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	56-55-3	Benzo(a)anthracene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	218-01-9	Chrysene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	117-81-7	Bis(2-ethylhexyl)phthalate	670		ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	117-84-0	Di-n-octylphthalate	630		ug/kg	360	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	205-99-2	Benzo(b)fluoranthene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	207-08-9	Benzo(k)fluoranthene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	50-32-8	Benzo(a)pyrene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	53-70-3	Dibenzo(a,h)anthracene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	191-24-2	Benzo(g,h,i)perylene	180	U*	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14	QL11018-010	S	12/23/2015	17:02:00	58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg	180	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	91-20-3	Naphthalene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	91-57-6	2-Methylnaphthalene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	208-96-8	Acenaphthylene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	83-32-9	Acenaphthene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	86-73-7	Fluorene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	87-86-5	Pentachlorophenol	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	85-01-8	Phenanthrene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	120-12-7	Anthracene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	206-44-0	Fluoranthene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	129-00-0	Pyrene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	56-55-3	Benzo(a)anthracene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	218-01-9	Chrysene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	205-99-2	Benzo(b)fluoranthene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	207-08-9	Benzo(k)fluoranthene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	50-32-8	Benzo(a)pyrene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	193-39-5	Indeno(1,2,3-cd)pyrene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	53-70-3	Dibenzo(a,h)anthracene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	191-24-2	Benzo(g,h,i)perylene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	121-14-2	2,4-Dinitrotoluene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	132-64-9	Dibenzofuran	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	67-72-1	Hexachloroethane	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	534-52-1	4,6-Dinitro-2-methylphenol	71	UJ	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	118-74-1	Hexachlorobenzene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	1912-24-9	Atrazine	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	621-64-7	N-Nitrosodi-n-propylamine	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	108-60-1	2,2'-Oxybis(1-chloropropane)	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	111-44-4	bis(2-Chloroethyl)ether	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	123-91-1	1,4-Dioxane	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	91-94-1	3,3'-Dichlorobenzidine	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	51-28-5	2,4-Dinitrophenol	710	U	ug/kg	710	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	98-95-3	Nitrobenzene	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	606-20-2	2,6-Dinitrotoluene	37	U	ug/kg	37	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	92-52-4	1,1'-Biphenyl	37	U	ug/kg	37	12/08/2015	TF-12-06

015773

45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	88-06-2	2,4,6-Trichlorophenol	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	95-94-3	1,2,4,5-Tetrachlorobenzene	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	87-68-3	Hexachlorobutadiene	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R14 (SIM)	QL11018-010	S	12/18/2015	21:24:00	106-47-8	4-Chloroaniline	71	U	ug/kg	71	12/08/2015	TF-12-06
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	123-91-1	1,4-Dioxane	81	U*	ug/kg	81	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	100-52-7	Benzaldehyde	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	108-95-2	Phenol	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	111-44-4	Bis(2-Chloroethyl) ether	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	95-48-7	2-Methylphenol	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	108-60-1	2,2'-Oxybis(1-chloropropane)	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	98-86-2	Acetophenone	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	106-44-5	4-Methylphenol	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	621-64-7	N-Nitroso-di-n propylamine	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	67-72-1	Hexachloroethane	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	98-95-3	Nitrobenzene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	78-59-1	Isophorone	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	91-20-3	Naphthalene	56	*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	106-47-8	4-Chloroaniline	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	87-68-3	Hexachlorobutadiene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	105-60-2	Caprolactam	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	91-57-6	2-Methylnaphthalene	160	*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	77-47-4	Hexachlorocyclo-pentadiene	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	88-06-2	2,4,6-Trichlorophenol	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	92-52-4	1,1'-Biphenyl	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	88-74-4	2-Nitroaniline	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	606-20-2	2,6-Dinitrotoluene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	51-28-5	2,4-Dinitrophenol	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	132-64-9	Dibenzofuran	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	121-14-2	2,4-Dinitrotoluene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	86-73-7	Fluorene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	7005-72-3	4-Chlorophenyl-phenyl ether	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	118-74-1	Hexachlorobenzene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	1912-24-9	Atrazine	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	85-01-8	Phenanthrene	76	*	ug/kg	200	12/08/2015	WIL-20

45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	120-12-7	Anthracene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	86-74-8	Carbazole	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	206-44-0	Fluoranthene	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	129-00-0	Pyrene	45	*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	91-94-1	3,3'-Dichlorobenzidine	380	U*	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	218-01-9	Chrysene	36	*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	117-81-7	Bis(2-ethylhexyl)phthalate	19	LJ	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	117-84-0	Di-n-octylphthalate	380	U	ug/kg	380	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15	QL11018-011	S	12/23/2015	15:04:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	91-20-3	Naphthalene	140	UM	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	91-57-6	2-Methylnaphthalene	410	UM	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	83-32-9	Acenaphthene	23	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	86-73-7	Fluorene	29	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	85-01-8	Phenanthrene	170		ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	120-12-7	Anthracene	22	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	206-44-0	Fluoranthene	23	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	129-00-0	Pyrene	91		ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	56-55-3	Benzo(a)anthracene	39	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	218-01-9	Chrysene	86		ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	205-99-2	Benzo(b)fluoranthene	26	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	207-08-9	Benzo(k)fluoranthene	11	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	50-32-8	Benzo(a)pyrene	21	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	193-39-5	Indeno(1,2,3-cd)pyrene	21	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	53-70-3	Dibenzo(a,h)anthracene	18	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	191-24-2	Benzo(g,h,i)perylene	26	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	534-52-1	4,6-Dinitro-2-methylphenol	77	UJ	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	51-28-5	2,4-Dinitrophenol	770	U	ug/kg	770	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	92-52-4	1,1'-Biphenyl	16	LJ	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	WIL-20

015775

45671	F6R05	F6R15 (SIM)	QL11018-011	S	12/18/2015	21:51:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/08/2015	WIL-20
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	100-52-7	Benzaldehyde	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	108-95-2	Phenol	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	111-44-4	Bis(2-Chloroethyl) ether	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	95-57-8	2-Chlorophenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	95-48-7	2-Methylphenol	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	98-86-2	Acetophenone	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	106-44-5	4-Methylphenol	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	621-64-7	N-Nitroso-di-n propylamine	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	67-72-1	Hexachloroethane	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	98-95-3	Nitrobenzene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	78-59-1	Isophorone	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	88-75-5	2-Nitrophenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	105-67-9	2,4-Dimethylphenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	111-91-1	Bis(2-chloroethoxy)methane	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	120-83-2	2,4-Dichlorophenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	91-20-3	Naphthalene	2000	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	106-47-8	4-Chloroaniline	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	87-68-3	Hexachlorobutadiene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	105-60-2	Caprolactam	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	59-50-7	4-Chloro-3-methylphenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	91-57-6	2-Methylnaphthalene	3100	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	77-47-4	Hexachlorocyclo-pentadiene	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	88-06-2	2,4,6-Trichlorophenol	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	95-95-4	2,4,5-Trichlorophenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	92-52-4	1,1'-Biphenyl	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	91-58-7	2-Chloronaphthalene	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	88-74-4	2-Nitroaniline	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	131-11-3	Dimethylphthalate	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	606-20-2	2,6-Dinitrotoluene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	208-96-8	Acenaphthylene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	99-09-2	3-Nitroaniline	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	83-32-9	Acenaphthene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	51-28-5	2,4-Dinitrophenol	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	100-02-7	4-Nitrophenol	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	132-64-9	Dibenzofuran	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	121-14-2	2,4-Dinitrotoluene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	84-66-2	Diethylphthalate	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	86-73-7	Fluorene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	7005-72-3	4-Chlorophenyl-phenyl ether	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	100-01-6	4-Nitroaniline	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	534-52-1	4,6-Dinitro-2-methylphenol	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	86-30-6	N-Nitrosodiphenylamine	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	101-55-3	4-Bromophenyl-phenylether	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	118-74-1	Hexachlorobenzene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	1912-24-9	Atrazine	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	87-86-5	Pentachlorophenol	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	85-01-8	Phenanthrene	21000		ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	120-12-7	Anthracene	1500	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	86-74-8	Carbazole	1400	LJ	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	84-74-2	Di-n-butylphthalate	4000	U	ug/kg	4000	12/08/2015	WIL-35

45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	206-44-0	Fluoranthene	1500	*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	129-00-0	Pyrene	5800	J	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	85-68-7	Butylbenzylphthalate	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	91-94-1	3,3'-Dichlorobenzidine	7800	U*	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	56-55-3	Benzo(a)anthracene	2000	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	218-01-9	Chrysene	4000	J	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	117-81-7	Bis(2-ethylhexyl)phthalate	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	117-84-0	Di-n-octylphthalate	7800	U	ug/kg	7800	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	205-99-2	Benzo(b)fluoranthene	680	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	207-08-9	Benzo(k)fluoranthene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	50-32-8	Benzo(a)pyrene	630	*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	193-39-5	Indeno(1,2,3-cd)pyrene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	53-70-3	Dibenzo(a,h)anthracene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	191-24-2	Benzo(g,h,i)perylene	4000	U*	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16	QL11018-012	S	12/15/2015	01:44:00	58-90-2	2,3,4,6-Tetrachlorophenol	4000	U	ug/kg	4000	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	91-20-3	Naphthalene	5300	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	91-57-6	2-Methylnaphthalene	6000	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	208-96-8	Acenaphthylene	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	83-32-9	Acenaphthene	550		ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	86-73-7	Fluorene	2600	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	87-86-5	Pentachlorophenol	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	85-01-8	Phenanthrene	8500	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	120-12-7	Anthracene	3700	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	206-44-0	Fluoranthene	3300	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	129-00-0	Pyrene	7200	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	56-55-3	Benzo(a)anthracene	4900	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	218-01-9	Chrysene	7600	*	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	205-99-2	Benzo(b)fluoranthene	1300	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	207-08-9	Benzo(k)fluoranthene	220		ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	50-32-8	Benzo(a)pyrene	1400	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	290	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	53-70-3	Dibenzo(a,h)anthracene	330	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	191-24-2	Benzo(g,h,i)perylene	400	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	108-60-1	2,2'-Oxybis(1-chloropropane)	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	67-72-1	Hexachloroethane	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	98-95-3	Nitrobenzene	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	106-47-8	4-Chloroaniline	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	87-68-3	Hexachlorobutadiene	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	95-94-3	1,2,4,5-Tetrachlorobenzene	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	88-06-2	2,4,6-Trichlorophenol	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	92-52-4	1,1'-Biphenyl	150		ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	132-64-9	Dibenzofuran	400	J	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	534-52-1	4,6-Dinitro-2-methylphenol	78	UJ	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	1912-24-9	Atrazine	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	91-94-1	3,3'-Dichlorobenzidine	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	51-28-5	2,4-Dinitrophenol	780	U	ug/kg	780	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/08/2015	WIL-35
45671	F6R05	F6R16 (SIM)	QL11018-012	S	12/18/2015	22:17:00	111-44-4	bis(2-Chloroethyl)ether	78	U	ug/kg	78	12/08/2015	WIL-35
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	91-20-3	Naphthalene	16000	J	ug/kg	600		
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	91-57-6	2-Methylnaphthalene	17000	J	ug/kg	600		

45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	208-96-8	Acenaphthylene	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	83-32-9	Acenaphthene	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	86-73-7	Fluorene	5900		ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	87-86-5	Pentachlorophenol	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	85-01-8	Phenanthrene	95000	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	120-12-7	Anthracene	11000	J	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	206-44-0	Fluoranthene	7600		ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	129-00-0	Pyrene	26000	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	56-55-3	Benzo(a)anthracene	9400	J	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	218-01-9	Chrysene	18000	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	205-99-2	Benzo(b)fluoranthene	2900	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	207-08-9	Benzo(k)fluoranthene	500	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	50-32-8	Benzo(a)pyrene	3200	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	193-39-5	Indeno(1,2,3-cd)pyrene	930	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	53-70-3	Dibenzo(a,h)anthracene	1000	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	191-24-2	Benzo(g,h,i)perylene	1600	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	606-20-2	2,6-Dinitrotoluene	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	92-52-4	1,1'-Biphenyl	240	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	88-06-2	2,4,6-Trichlorophenol	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	87-68-3	Hexachlorobutadiene	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	106-47-8	4-Chloroaniline	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	98-95-3	Nitrobenzene	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	67-72-1	Hexachloroethane	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	621-64-7	N-Nitrosodi-n-propylamine	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	111-44-4	bis(2-Chloroethyl)ether	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	123-91-1	1,4-Dioxane	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	91-94-1	3,3'-Dichlorobenzidine	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	1912-24-9	Atrazine	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	118-74-1	Hexachlorobenzene	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	534-52-1	4,6-Dinitro-2-methylphenol	1200	U*	ug/kg	1200			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	132-64-9	Dibenzofuran	880	*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	121-14-2	2,4-Dinitrotoluene	600	U*	ug/kg	600			
45671	F6R05	F6R16RX (SIM)	QL11018-012	S	12/23/2015	13:48:00	51-28-5	2,4-Dinitrophenol	12000	U*	ug/kg	12000			
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	123-91-1	1,4-Dioxane	81	U*	ug/kg	81	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	100-52-7	Benzaldehyde	380	U	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	108-95-2	Phenol	380	U	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	111-44-4	Bis(2-Chloroethyl) ether	380	U*	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	95-48-7	2-Methylphenol	380	U	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	380	U*	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	98-86-2	Acetophenone	380	U	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	106-44-5	4-Methylphenol	380	U	ug/kg	380	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	621-64-7	N-Nitroso-di-n propylamine	200	U*	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	67-72-1	Hexachloroethane	200	U*	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	98-95-3	Nitrobenzene	200	U*	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	78-59-1	Isophorone	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	91-20-3	Naphthalene	44	*	ug/kg	200	12/08/2015	WIL-14	
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	106-47-8	4-Chloroaniline	380	U*	ug/kg	380	12/08/2015	WIL-14	

45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	87-68-3	Hexachlorobutadiene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	105-60-2	Caprolactam	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	91-57-6	2-Methylnaphthalene	56	*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	77-47-4	Hexachlorocyclo-pentadiene	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	88-06-2	2,4,6-Trichlorophenol	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	92-52-4	1,1'-Biphenyl	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	88-74-4	2-Nitroaniline	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	606-20-2	2,6-Dinitrotoluene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	51-28-5	2,4-Dinitrophenol	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	132-64-9	Dibenzofuran	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	121-14-2	2,4-Dinitrotoluene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	86-73-7	Fluorene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	7005-72-3	4-Chlorophenyl-phenyl ether	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	118-74-1	Hexachlorobenzene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	1912-24-9	Atrazine	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	120-12-7	Anthracene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	86-74-8	Carbazole	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	206-44-0	Fluoranthene	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	129-00-0	Pyrene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	91-94-1	3,3'-Dichlorobenzidine	380	U*	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	218-01-9	Chrysene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	117-84-0	Di-n-octylphthalate	380	U	ug/kg	380	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17	QL11018-013	S	12/23/2015	15:34:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	91-20-3	Naphthalene	84	UM	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	91-57-6	2-Methylnaphthalene	110	UM	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	208-96-8	Acenaphthylene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	86-73-7	Fluorene	39	U	ug/kg	39	12/08/2015	WIL-14

45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	87-86-5	Pentachlorophenol	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	85-01-8	Phenanthrene	35	LJ	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	120-12-7	Anthracene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	129-00-0	Pyrene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	218-01-9	Chrysene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	88-06-2	2,4,6-Trichlorophenol	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	91-94-1	3,3'-Dichlorobenzidine	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	95-94-3	1,2,4,5-Tetrachlorobenzene	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	87-68-3	Hexachlorobutadiene	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	106-47-8	4-Chloroaniline	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	51-28-5	2,4-Dinitrophenol	750	U	ug/kg	750	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	111-44-4	bis(2-Chloroethyl)ether	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	108-60-1	2,2'-Oxybis(1-chloropropane)	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	67-72-1	Hexachloroethane	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	98-95-3	Nitrobenzene	75	U	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	534-52-1	4,6-Dinitro-2-methylphenol	75	UJ	ug/kg	75	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/08/2015	WIL-14
45671	F6R05	F6R17 (SIM)	QL11018-013	S	12/18/2015	22:43:00	1912-24-9	Atrazine	75	U	ug/kg	75	12/08/2015	WIL-14

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. F6R05 SDG Nos. To Follow Mod. Ref No. 2544.1 Date Rec. 01/05/16

EPA Lab ID: EQI

Lab Location: W. Columbia, SC

Region: 6 Audit No.: 45671/F6R05

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

11. The airbill with the number 859483220395 was not submitted. The laboratory was contacted for this matter.

14./15. Sample tags were not used for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?		X	
12. Signed?			X
13. Dated?			X
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: L. Hoffman / ESAT Data Reviewer Date 01/06/16

Audited by: Date

Signature Printed Name/Title

DC-2

015781

In Reference To: (O-1318)
Case No: 45671 SDG(s): F6R05

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	EQI
Lab Contact:	Robert Zhu
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Linda Hoffman - ESAT

In reference to data for the fraction(s):

CSF Issues LMVOA SVOA/SVOA-SIM

Summary of Questions/Issues:

CSF Issues

1. On Form DC-1 (p. 12), the SDG number correction was not initialed and dated. Please add the contract-required information and resubmit this page with proper pagination.

2. The airbill with the number 859483220395 was not submitted. Please submit this contract-required document with proper pagination.

3. The Manual Integration Report (pp. 24-28), SVOA Prep Batch sheets (pp. 1892-1894), and SOVA-SIM Prep Batch sheets (pp. 2287-2289) were not paginated. Please resubmit these pages with the appropriate pagination.

LMVOA

1. The "Level" should be "MED" for Form 6A (pages 830, 831, 851, 852, 880, 881, 911, and 912), Form 7A (pages 993, 994, 1000, 1001, 1007, 1008, 1015, 1016, 1023, and 1024), and Form 8A (pages 65-68). Please correct and resubmit these pages with proper pagination.

2. The manual integrations were not initialed and dated on the quantitation reports although this is required by the SOW (SOM02.3, p. B-16, sec. 2.4.7.2.4.3). Please initial and date the "M" flags on all quantitation report pages and resubmit these pages with proper pagination.

015782

Resubmission Request

Continuation Page: 2
Laboratory/Contact: EQI/Robert Zhu
In Reference to Case No.: 45671 **SDG:** F6R05

SVOA/SVOA-SIM

1. **SVOA-SIM** For Form 8A (pages 1913-1916), the IS3 should be phenanthrene-d10 and results for IS6 (1,4-Dichlorobenzene-d4) were omitted for all samples. Please correct and resubmit these pages with proper pagination.

2. **SVOA-SIM** The manual integrations were not initialed and dated on the quantitation reports although this is required by the SOW (SOM02.3, p. B-16, sec. 2.4.7.2.4.3). Please initial and date the "M" flags on all quantitation report pages and resubmit these pages with proper pagination.

3. **SVOA and SVOA-SIM** The recoveries for 1,4-Dioxane-d8 (DMC1) were outside the QC limits for SVOA method blank SBLK19 and SVOA-SIM method blanks SBLK02 and SBLK38 and for bis(2-chloroethyl)ether-d8 (DMC4) for SVOA-SIM method blank SBLK02, but contract required reanalyses and/or re-extractions (SOM02.3, p. D-54/SVOA, sec. 12.1.2.5.2 and D-55/SVOA, sec. 12.1.2.6.3) were not performed. Please submit additional information or explain.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM02.3, p. B-11, sec. 2.2.2). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 5 business days** (SOM02.3, p. B-11, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015783

~~F6R06~~ F6R05 12-17/15

USEPA CLP COC (LAB COPY)

DateShipped: 12/7/2015
CarrierName: FedEx
AirbillNo: 8594 8322 0421

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14835

No: 6-120715-174850-0006

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0006	F6R05	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1042 (4 C), 1043 (4 C), 1044 (4 C), 1045 (4 C) (4)	WIL-30	12/07/2015 09:45	
277-0007	F6R06	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1049 (4 C), 1050 (4 C), 1051 (4 C), 1052 (4 C) (4)	WIL-29	12/07/2015 10:30	
277-0008	F6R07	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1056 (4 C), 1057 (4 C), 1058 (4 C), 1059 (4 C) (4)	WIL-05	12/07/2015 12:20	
277-0009	F6R08	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1063 (4 C), 1064 (4 C), 1065 (4 C), 1066 (4 C) (4)	WIL-25	12/07/2015 14:40	
277-0010	F6R09	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1070 (4 C), 1071 (4 C), 1072 (4 C), 1073 (4 C) (4)	TF-11-03	12/07/2015 16:15	

Page 5 of 7

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LMSERAS	12/7/15 17:00			
				12-8-15/1000	OK

T=1.4°

5

~~F6R00~~ F6R05

USEPA CLP COC (LAB COPY)
DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220400

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPLU14035

No: 6-120815-175839-0007
Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0011	F6R10	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1077 (4 C), 1078 (4 C), 1079 (4 C), 1080 (4 C) (4)	TF-11-05	12/08/2015 08:40	
277-0012	F6R11	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1084 (4 C), 1085 (4 C), 1086 (4 C), 1087 (4 C) (4)	TF-12-01	12/08/2015 09:50	
277-0013	F6R12	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1091 (4 C), 1092 (4 C), 1093 (4 C), 1094 (4 C) (4)	TF-12-05	12/08/2015 11:15	
277-0014	F6R13	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1098 (4 C), 1099 (4 C), 1100 (4 C), 1101 (4 C) (4)	FD-02	12/08/2015 11:15	
277-0015	F6R14	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1105 (4 C), 1106 (4 C), 1107 (4 C), 1108 (4 C) (4)	TF-12-06	12/08/2015 12:10	
277-0016	F6R15	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1112 (4 C), 1113 (4 C), 1114 (4 C), 1115 (4 C) (4)	WIL-20	12/08/2015 15:00	
277-0017	F6R16	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1119 (4 C), 1120 (4 C), 1121 (4 C), 1122 (4 C) (4)	WIL-35	12/08/2015 15:25	
277-0018	F6R17	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1126 (4 C), 1127 (4 C), 1128 (4 C), 1129 (4 C) (4)	WIL-14	12/08/2015 16:30	

Page 57 of 62

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LMSERAS	12/8/15 1700			
				12-9-15/1030	OK

T=3.6°

9

~~F6R00~~ F6R05

USEPA CLP COC (LAB COPY)

DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220042

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14035

No: 6-120815-181449-0009

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0006	F6R05	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1046 (4 C), 1047 (4 C) (2)	WIL-30	12/07/2015 09:45	
277-0007	F6R06	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1053 (4 C), 1054 (4 C) (2)	WIL-29	12/07/2015 10:30	
277-0008	F6R07	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1060 (4 C), 1061 (4 C) (2)	WIL-05	12/07/2015 12:20	
277-0009	F6R08	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1067 (4 C), 1068 (4 C) (2)	WIL-25	12/07/2015 14:40	
277-0010	F6R09	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1074 (4 C), 1075 (4 C) (2)	TF-11-03	12/07/2015 16:15	
277-0011	F6R10	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1081 (4 C), 1082 (4 C) (2)	TF-11-05	12/08/2015 08:40	
277-0012	F6R11	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1088 (4 C), 1089 (4 C) (2)	TF-12-01	12/08/2015 09:50	
277-0013	F6R12	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1095 (4 C), 1096 (4 C) (2)	TF-12-05	12/08/2015 11:15	
277-0014	F6R13	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1102 (4 C), 1103 (4 C) (2)	FD-02	12/08/2015 11:15	
277-0015	F6R14	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1109 (4 C), 1110 (4 C) (2)	TF-12-06	12/08/2015 12:10	

Page 58 of 62

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SVOAs/SVOASIMs=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (Soils)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LM SERAS	12/8/15 17:20			
			Kelly	12-9-15/1030	OK

T=3.0°

4

~~F0R00~~ F6R05

USEPA CLP COC (LAB COPY)

DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220042

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14035

No: 6-120815-181449-0009

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0016	F6R15	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1116 (4 C), 1117 (4 C) (2)	WIL-20	12/08/2015 15:00	
277-0017	F6R16	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1123 (4 C), 1124 (4 C) (2)	WIL-35	12/08/2015 15:25	
277-0018	F6R17	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1130 (4 C), 1131 (4 C) (2)	WIL-14	12/08/2015 16:30	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOAs/SVOASIMs=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (Soils)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LMSERAS	12/8/15 17:20			
				12-9-15/1030	OK

T= 3.0°

Page 59 of 72

8

F6R05
F6R05 rerun 12/11/15

Page 1 of 1

EPA CLP COC (LAB COPY)

DateShipped: 12/10/2015
CarrierName: FedEx
AirbillNo: 859483220395

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #:

No: 6-121015-175955-0011

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0020	F6R19	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1140 (4 C), 1141 (4 C), 1142 (4 C), 1143 (4 C) (4)	P-03-SAND	12/10/2015 14:50	
277-0021	F6R20	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1147 (4 C), 1148 (4 C), 1149 (4 C), 1150 (4 C) (4)	WIL-AA-10	12/10/2015 12:50	
277-0022	F6R21	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1154 (4 C), 1155 (4 C), 1156 (4 C), 1157 (4 C) (4)	WIL-AA-11	12/10/2015 13:55	
277-0024	F6R23	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1168 (4 C), 1169 (4 C), 1170 (4 C), 1171 (4 C) (4)	WIL-41	12/10/2015 10:50	

Page 1 of 2

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/Analysis	on SERAS	12/10/15 17.00			
				12/11/15 1030	OK

SDG F6R05 filing sample T=4.4

6

Date: 11/09/2015	MA: 2544.1	Title: SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	Method: Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications — Not applicable ☐

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

ADDENDUM

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

HoldingTimes_Preservation

Method - Volatile Organics

Test Name: EXES-1516

Defect Message: The following non-aqueous samples are properly preserved and analysis is outside the technical holding time. Detects are qualified as estimated low J. Nondetects are qualified as unusable R.

Associated Samples: F6R19, F6R20, F6R21, F6R23

	F6R21, F6R20, F6R23, F6R19

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

TUNE

NONE FOUND

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

InitialCalibration

Method - Volatile Organics

Test Name: EXES-793
Defect Message: The following samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Use professional judgment to qualify nondetects.

Associated Samples: F6R23, VBLKPE

Bromochloromethane	VSTD005PE
1,2,4-Trichlorobenzene	VSTD005PE

Test Name: EXES-989
Defect Message: The following samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detects are qualified as estimated J+. Nondetects are qualified as unusable R.

Associated Samples: F6R05, F6R06, F6R08, F6R09, VBLKNH

1,1,2-Trichloroethane	VSTD005NH

Method - Semivolatiles

Test Name: EXES-793
Defect Message: The following samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Use professional judgment to qualify nondetects.

Associated Samples: F6R05, F6R06, F6R06RX, F6R07, F6R08, F6R09, F6R10, F6R11, F6R12, F6R13, F6R14, F6R15, F6R16, F6R17, SBLK19, SBLK46

2,6-Dinitrotoluene	SSTD005NG
2,4-Dinitrotoluene	SSTD005NG
2,3,4,6-Tetrachlorophenol	SSTD005NG

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

ContinuingCalibrationVerification

Method - Volatile Organics

Test Name: EXES-1209
Defect Message: The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detecteds are qualified as estimated J. Nondetects are qualified as estimated UJ.

Associated Samples: F6R05, F6R06, F6R09, F6R10, F6R11, F6R12, F6R13, F6R16, F6R23, VBLKPE, VBLKQV

Vinyl chloride	VSTD050QZ
Chloroethane	VSTD050QA

Method - Semivolatiles by SIM

Test Name: EXES-1209
Defect Message: The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detecteds are qualified as estimated J. Nondetects are qualified as estimated UJ.

Associated Samples: F6R05RX, F6R06RX, F6R16RX, SBLK02, SBLK38

Acenaphthene	SSTD0.2PC

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Blanks

Method - Volatile Organics

Test Name: EXES-1167
Defect Message: The following samples have the same tentatively identified compounds (TIC) detected as in the associated storage blank. TIC results reported in the associated storage blank exceed concentration criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R05, F6R06, F6R07, F6R08, F6R09, F6R10, F6R11, F6R12, F6R13, F6R15, F6R16, F6R20, F6R21, F6R23

Unknown-01	F6R21, F6R20, F6R08, F6R06, F6R10, F6R12, F6R09, F6R11, F6R13, F6R16, F6R23, F6R05, F6R07, F6R15

Test Name: EXES-1171
Defect Message: The following samples have the same tentatively identified compounds (TIC) detected as in the associated method blank. TIC results reported in the associated method blank exceed concentration criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R15, F6R20, F6R21

Unknown-01	F6R21, F6R15, F6R20

Test Name: EXES-1174
Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R05

Dichlorodifluoromethane	F6R05
Chloromethane	F6R05
Vinyl chloride	F6R05
Bromomethane	F6R05
Chloroethane	F6R05
Trichlorofluoromethane	F6R05
1,1-Dichloroethene	F6R05
1,1,2-Trichloro-1,2,2-Trifluoroethane	F6R05
Acetone	F6R05
Carbon disulfide	F6R05

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1174
Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R05

Methyl acetate	F6R05
Methylene chloride	F6R05
trans-1,2-Dichloroethene	F6R05
Methyl tert-butyl ether	F6R05
1,1-Dichloroethane	F6R05
cis-1,2-Dichloroethene	F6R05
2-Butanone	F6R05
Bromochloromethane	F6R05
Chloroform	F6R05
1,1,1-Trichloroethane	F6R05
Cyclohexane	F6R05
Carbon tetrachloride	F6R05
Benzene	F6R05
1,2-Dichloroethane	F6R05
Trichloroethene	F6R05
1,2-Dichloropropane	F6R05
Bromodichloromethane	F6R05
cis-1,3-Dichloropropene	F6R05
4-Methyl-2-pentanone	F6R05
Toluene	F6R05
trans-1,3-Dichloropropene	F6R05
1,1,2-Trichloroethane	F6R05
Tetrachloroethene	F6R05
2-Hexanone	F6R05
Dibromochloromethane	F6R05
1,2-Dibromoethane	F6R05
Chlorobenzene	F6R05
Ethylbenzene	F6R05
m, p-Xylene	F6R05
Styrene	F6R05
Bromoform	F6R05
Isopropylbenzene	F6R05
1,1,2,2-Tetrachloroethane	F6R05
1,3-Dichlorobenzene	F6R05
1,4-Dichlorobenzene	F6R05
1,2-Dichlorobenzene	F6R05
1,2-Dibromo-3-chloropropane	F6R05

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1174
Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R05

1,2,4-Trichlorobenzene	F6R05
1,2,3-Trichlorobenzene	F6R05

Method - Semivolatiles

Test Name: EXES-1170
Defect Message: The following samples have the same tentatively identified compounds (TIC) detected as in the associated method blank. TIC results reported in the associated method blank exceed concentration criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R06RX

Unknown-01	F6R06RX
Unknown-02	F6R06RX

Method - Semivolatiles by SIM

Test Name: EXES-1101
Defect Message: The following samples have analyte results reported less than CRQLs. The associated method blank results are greater than or equal to CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

Associated Samples: F6R08

Naphthalene	F6R08

Test Name: EXES-1123
Defect Message: The following samples have analyte results reported greater than or equal to CRQLs and greater than or equal to the method blank results. The associated method blank results are greater than or equal to CRQLs. Detects are not qualified. Use professional judgment to qualify data.

Associated Samples: F6R05, F6R06, F6R07, F6R08, F6R09, F6R10, F6R11, F6R12, F6R13, F6R15, F6R16, F6R17

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1123

Defect Message: The following samples have analyte results reported greater than or equal to CRQLs and greater than or equal to the method blank results. The associated method blank results are greater than or equal to CRQLs. Detects are not qualified. Use professional judgment to qualify data.

Associated Samples: F6R05, F6R06, F6R07, F6R08, F6R09, F6R10, F6R11, F6R12, F6R13, F6R15, F6R16, F6R17

Naphthalene	F6R05, F6R09, F6R06, F6R15, F6R17, F6R16, F6R10, F6R07, F6R12, F6R11, F6R13
2-Methylnaphthalene	F6R07, F6R16, F6R09, F6R06, F6R08, F6R12, F6R11, F6R15, F6R13, F6R17, F6R05, F6R10

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

DMC_Surrogate

Method - Volatile Organics

Test Name: EXES-1350
Defect Message: The following samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

Associated Samples: F6R09, F6R12, F6R14, F6R15, F6R16, F6R21, F6R23

1,1-Dichloroethene-d2	F6R12
1,2-Dichloroethane-d4	F6R23, F6R12, F6R15, F6R14
1,2-Dichloropropane-d6	F6R14, F6R12, F6R15, F6R16
trans-1,3-Dichloropropene-d4	F6R09
1,1,2,2-Tetrachloroethane-d2	F6R21, F6R12
1,2-Dichlorobenzene-d4	F6R14, F6R15, F6R12

Test Name: EXES-787
Defect Message: The following samples have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as unusable R.

Associated Samples: F6R05, F6R09

2-Hexanone-d5	F6R05
1,2-Dichlorobenzene-d4	F6R09

Test Name: EXES-973
Defect Message: The following method blanks have DMC/surrogate percent recoveries outside criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: VBLKQV

Vinyl Chloride-d3	VBLKQV

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R05, F6R06, F6R09, F6R10, F6R23, VIBLK03

Benzene-d6	VIBLK03
1,2-Dichloropropane-d6	F6R05, F6R23, F6R10
Toluene-d8	F6R23, F6R09
trans-1,3-Dichloropropene-d4	F6R23, F6R06
2-Hexanone-d5	F6R23
1,1,2,2-Tetrachloroethane-d2	F6R06

Method - Semivolatiles

Test Name: EXES-1346
Defect Message: The following samples have DMC/surrogate percent recoveries less than the primary minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

Associated Samples: F6R11

4,6-Dinitro-2-methylphenol-d2	F6R11

Test Name: EXES-973
Defect Message: The following method blanks have DMC/surrogate percent recoveries outside criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: SBLK19

1,4-Dioxane-d8	SBLK19

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R05, F6R06, F6R06RX

4-Chloroaniline-d4	F6R06RX, F6R05, F6R06

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R05, F6R06, F6R06RX

4-Nitrophenol-d4	F6R06

Method - Semivolatiles by SIM

Test Name: EXES-787
Defect Message: The following samples have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as unusable R.

Associated Samples: F6R05, F6R06, F6R10, F6R11, F6R12, F6R13, F6R14, F6R16

Fluoranthene-d10	F6R10, F6R05, F6R12, F6R16, F6R06, F6R13
2-Methylnaphthalene-d10	F6R13, F6R14, F6R11, F6R12, F6R05, F6R06, F6R10

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R05RX, F6R06RX, F6R07, F6R08, F6R09, F6R11, F6R16, F6R16RX, F6R17

Fluoranthene-d10	F6R05RX, F6R16RX, F6R11, F6R08, F6R09
2-Methylnaphthalene-d10	F6R16, F6R07, F6R09, F6R05RX, F6R06RX, F6R17, F6R08

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

MatrixSpikes

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

InternalStandard

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

PercentSolids

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

SampleAnalysis

NONE FOUND

Data Validation Report

Data Review Results

Wed, 6 Jan 2016 17:06:21

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

DetectionLimit

Method - Volatile Organics

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: F6R05, F6R08, F6R10, F6R11, F6R12, F6R15, F6R16, F6R17, F6R20, F6R21, F6R23

Acetone	F6R17
Methylene chloride	F6R05, F6R08
Benzene	F6R16, F6R15, F6R21, F6R20
1,2-Dichloropropane	F6R16
Toluene	F6R16
o-Xylene	F6R23, F6R21
Isopropylbenzene	F6R20, F6R11, F6R12, F6R10

Method - Semivolatiles

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: F6R05, F6R06, F6R06RX, F6R07, F6R09, F6R10, F6R11, F6R12, F6R13, F6R14, F6R15, F6R16, F6R17

Naphthalene	F6R05, F6R15, F6R07, F6R17, F6R16
2-Methylnaphthalene	F6R07, F6R17, F6R12, F6R13, F6R11, F6R09, F6R10, F6R15, F6R16
1,1'-Biphenyl	F6R06
Acenaphthene	F6R06RX
Fluorene	F6R06RX
Phenanthrene	F6R05, F6R15, F6R06RX
Anthracene	F6R16, F6R06RX
Carbazole	F6R16
Di-n-butylphthalate	F6R14

Lab Code: EQI	SDG: F6R05	Contract: EPW14035	Submission Group Id: 30115556
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: F6R05, F6R06, F6R06RX, F6R07, F6R09, F6R10, F6R11, F6R12, F6R13, F6R14, F6R15, F6R16, F6R17

Fluoranthene	F6R16, F6R06
Pyrene	F6R15, F6R06RX, F6R05
Benzo(a)anthracene	F6R16, F6R06
Chrysene	F6R15, F6R06
Benzo(b)fluoranthene	F6R06, F6R16
Benzo(a)pyrene	F6R06, F6R16

Method - Semivolatiles by SIM

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: F6R05, F6R05RX, F6R06RX, F6R08, F6R09, F6R10, F6R11, F6R13, F6R15, F6R16RX, F6R17

Naphthalene	F6R08
Acenaphthene	F6R15
Fluorene	F6R15
Phenanthrene	F6R17, F6R08
Anthracene	F6R15
Fluoranthene	F6R10, F6R15, F6R05RX
Benzo(a)anthracene	F6R05RX, F6R10
Chrysene	F6R05RX, F6R11
Benzo(b)fluoranthene	F6R06RX, F6R15, F6R09, F6R13
Benzo(k)fluoranthene	F6R10, F6R16RX, F6R15, F6R05
Benzo(a)pyrene	F6R06RX, F6R10, F6R05RX, F6R15
Indeno(1,2,3-cd)pyrene	F6R05, F6R06RX, F6R15, F6R10
Dibenzo(a,h)anthracene	F6R15, F6R05
Benzo(g,h,i)perylene	F6R06RX, F6R15, F6R05RX
1,1'-Biphenyl	F6R16RX, F6R15, F6R06RX
Dibenzofuran	F6R10, F6R11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 20, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: **WILCOX OIL**

Case#: **45671**

SDG#: **F6R18**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 15, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Wallace Doong, Data Reviewer, ESAT WD

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1602-211-0053
TDF No.:	6-16-117A
ESAT File No.:	O-1319

Attached is the data review summary for Case # 45671
SDG # F6R18
Site Wilcox Oil

015810

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45671	SITE	Wilcox Oil
LABORATORY	EQI	NO. OF SAMPLES	9
CONTRACT#	EP-W-14-035	MATRIX	Soil
SDG#	F6R18	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM02.3/MA 2544.1	REVIEWER'S NAME	Wallace Doong
SF#	303DD2GG	COMPLETION DATE	January 15, 2016

SAMPLE NO.					
	F6R18	F6R24	F6R28		
	F6R20	F6R25			
	F6R21	F6R26			
	F6R23	F6R27			

DATA ASSESSMENT SUMMARY

	LMVOA	SVOA	SVOA-SIM
1. HOLDING TIMES	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	M	O	M
4. BLANKS	O	O	O
5. DMC/SURROGATES	M	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A	N/A
7. OTHER QC	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	M
9. COMPOUND ID/QUANTITATION	O	O	M
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: **LMVOA** Chloroethane failed the technical %D calibration criteria. Samples F6R24 and F6R26 had outlying DMC recoveries. **SVOA-SIM** Acenaphthylene, acenaphthene, and fluorene failed the technical %D calibration criteria. Phenanthrene and pyrene exceeded the calibration ranges for sample F6R24RX. Samples F6R25RE and F6R26 had poor IS performance. Some results were inconsistent between the original and re-extracted analyses for samples F6R23, F6R24, and F6R26.

015811

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** F6R18 **SITE** Wilcox Oil **LAB** EQI

COMMENTS: This SDG consisted of nine soil samples for LMVOA, SVOA, and/or SVOA-SIM analyses following CLP SOW SOM02.3. The samples were also subject to Modified Analysis Request 2544.1 (MA 2544.1), which required the laboratory to analyze the samples for 19 additional compounds and lower CRQLs for the SVOA-SIM analyses. Samples F6R18, F6R20, F6R21, and F6R23 only required SVOA and SVOA-SIM analyses. MS/MSD analyses were not requested for this case.

The SOW requires that the soil sample results be adjusted for moisture content as well as dilution when applicable. The adjusted CRQLs, higher than the CRQLs specified in the SOW and MA 2544.1, were reported by the laboratory and are referred to as SQLs in this report. The target compounds of concern with the required CRQLs are listed in MA 2544.1 (pages 37 and 38 of this report). The target compounds of concern reported at concentrations above the SQLs were dibenzofuran and/or PAHs in SVOA/SVOA-SIM samples F6R23, F6R24, F6R25, and F6R26.

LMVOA Because of high matrix background, the laboratory analyzed samples F6R24, F6R25, F6R26, and F6R27 at the medium level (5 gm). The laboratory also diluted (10X) and reanalyzed sample F6R24 because of high methylcyclohexane and xylenes concentrations.

SVOA Because of high matrix background and high concentrations of phenols and/or PAHs, all samples except samples F6R18 and F6R28, were concentrated to a larger final extract volume and/or analyzed at dilution (up to 20X).

SVOA-SIM All samples were originally analyzed at the low level with dilution (up to 20X) because of high target compound concentrations and/or matrix background. The laboratory may have over-diluted samples F6R18, F6R20, F6R21, and F6R28, which caused elevated SQLs for target compounds of concern. Sample F6R25 was reanalyzed because of unacceptable IS performance. The reanalysis repeated the problem, demonstrating matrix effect. The results for sample F6R25RE were recommended for use because of better IS performance.

Samples F6R23, F6R24, and F6R26 were re-extracted and reanalyzed at the medium level because of high PAH concentrations and unacceptable IS performance. The reanalyses had better IS performance, but some of the results were inconsistent between the original and re-extracted analyses. To minimize data qualification and favor positive results with higher concentrations, some of the positive results were recommended for use from the reanalyses for samples F6R23, F6R24, and F6R26 and the inconsistent results were qualified accordingly.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

015812

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 45671 **SDG** F6R18 **SITE** Wilcox Oil **LAB** EQI

OVERALL ASSESSMENT: Some results were qualified for four LMVOA samples and all SVOA-SIM samples because of problems with calibration, DMC recovery, IS performance, and/or compound quantitation. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF deliverable and reporting issues (see Resubmission Request). The laboratory response will not impact the DST, so the DST included in this report is the final version.

015813

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

015814

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

015815

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

015816

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-71-8	Dichlorodifluoromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	74-87-3	Chloromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-01-4	Vinyl chloride	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	74-83-9	Bromomethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-00-3	Chloroethane	350	UJ	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-69-4	Trichlorofluoromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-35-4	1,1-Dichloroethene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	67-64-1	Acetone	700	U	ug/kg	700	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-15-0	Carbon disulfide	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	79-20-9	Methyl acetate	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-09-2	Methylene chloride	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	156-60-5	trans-1,2-Dichloroethene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	1634-04-4	Methyl tert-butyl ether	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-34-3	1,1-Dichloroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	156-59-2	cis-1,2-Dichloroethene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	78-93-3	2-Butanone	700	U	ug/kg	700	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	74-97-5	Bromochloromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	67-66-3	Chloroform	1200		ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	71-55-6	1,1,1-Trichloroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	110-82-7	Cyclohexane	13000	J^	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	56-23-5	Carbon tetrachloride	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	71-43-2	Benzene	750	J^	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	107-06-2	1,2-Dichloroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	79-01-6	Trichloroethene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/21/2015	12:18:00	108-87-2	Methylcyclohexane	32000		ug/kg	3500	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	78-87-5	1,2-Dichloropropane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-27-4	Bromodichloromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	10061-01-5	cis-1,3-Dichloropropene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	108-10-1	4-Methyl-2-pentanone	700	U	ug/kg	700	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	108-88-3	Toluene	4100	J^	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	10061-02-6	trans-1,3-Dichloropropene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	79-00-5	1,1,2-Trichloroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	127-18-4	Tetrachloroethene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	591-78-6	2-Hexanone	700	U	ug/kg	700	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	124-48-1	Dibromochloromethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	106-93-4	1,2-Dibromoethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	108-90-7	Chlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	100-41-4	Ethylbenzene	9200	J^	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/21/2015	12:18:00	95-47-6	o-Xylene	15000		ug/kg	3500	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/21/2015	12:18:00	179601-23-1	m, p-Xylene	32000		ug/kg	3500	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	100-42-5	Styrene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	75-25-2	Bromoform	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	98-82-8	Isopropylbenzene	3300	J^	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	79-34-5	1,1,2,2-Tetrachloroethane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	541-73-1	1,3-Dichlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	106-46-7	1,4-Dichlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	95-50-1	1,2-Dichlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	96-12-8	1,2-Dibromo-3-chloropropane	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	120-82-1	1,2,4-Trichlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/16/2015	15:15:00	87-61-6	1,2,3-Trichlorobenzene	350	U	ug/kg	350	12/11/2015	TF-34-01

015817

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-71-8	Dichlorodifluoromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	74-87-3	Chloromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-01-4	Vinyl chloride	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	74-83-9	Bromomethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-00-3	Chloroethane	300	UJ	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-69-4	Trichlorofluoromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-35-4	1,1-Dichloroethene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	67-64-1	Acetone	600	U	ug/kg	600	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-15-0	Carbon disulfide	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	79-20-9	Methyl acetate	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-09-2	Methylene chloride	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	156-60-5	trans-1,2-Dichloroethene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	1634-04-4	Methyl tert-butyl ether	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-34-3	1,1-Dichloroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	156-59-2	cis-1,2-Dichloroethene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	78-93-3	2-Butanone	600	U	ug/kg	600	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	74-97-5	Bromochloromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	67-66-3	Chloroform	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	71-55-6	1,1,1-Trichloroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	110-82-7	Cyclohexane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	56-23-5	Carbon tetrachloride	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	71-43-2	Benzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	107-06-2	1,2-Dichloroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	79-01-6	Trichloroethene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	108-87-2	Methylcyclohexane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	78-87-5	1,2-Dichloropropane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-27-4	Bromodichloromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	10061-01-5	cis-1,3-Dichloropropene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	108-10-1	4-Methyl-2-pentanone	600	U	ug/kg	600	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	108-88-3	Toluene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	10061-02-6	trans-1,3-Dichloropropene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	79-00-5	1,1,2-Trichloroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	127-18-4	Tetrachloroethene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	591-78-6	2-Hexanone	600	U	ug/kg	600	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	124-48-1	Dibromochloromethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	106-93-4	1,2-Dibromoethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	108-90-7	Chlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	100-41-4	Ethylbenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	95-47-6	o-Xylene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	179601-23-1	m, p-Xylene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	100-42-5	Styrene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	75-25-2	Bromoform	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	98-82-8	Isopropylbenzene	2700		ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	79-34-5	1,1,2,2-Tetrachloroethane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	541-73-1	1,3-Dichlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	106-46-7	1,4-Dichlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	95-50-1	1,2-Dichlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	96-12-8	1,2-Dibromo-3-chloropropane	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	120-82-1	1,2,4-Trichlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/16/2015	15:58:00	87-61-6	1,2,3-Trichlorobenzene	300	U	ug/kg	300	12/11/2015	LOR-18

015818

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-71-8	Dichlorodifluoromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	74-87-3	Chloromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-01-4	Vinyl chloride	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	74-83-9	Bromomethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-00-3	Chloroethane	270	UJ	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-69-4	Trichlorofluoromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-35-4	1,1-Dichloroethene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	67-64-1	Acetone	540	U	ug/kg	540	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-15-0	Carbon disulfide	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	79-20-9	Methyl acetate	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-09-2	Methylene chloride	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	156-60-5	trans-1,2-Dichloroethene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	1634-04-4	Methyl tert-butyl ether	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-34-3	1,1-Dichloroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	156-59-2	cis-1,2-Dichloroethene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	78-93-3	2-Butanone	540	U	ug/kg	540	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	74-97-5	Bromochloromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	67-66-3	Chloroform	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	71-55-6	1,1,1-Trichloroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	110-82-7	Cyclohexane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	56-23-5	Carbon tetrachloride	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	71-43-2	Benzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	107-06-2	1,2-Dichloroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	79-01-6	Trichloroethene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	108-87-2	Methylcyclohexane	2400	J^	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	78-87-5	1,2-Dichloropropane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-27-4	Bromodichloromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	10061-01-5	cis-1,3-Dichloropropene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	108-10-1	4-Methyl-2-pentanone	540	U	ug/kg	540	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	108-88-3	Toluene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	10061-02-6	trans-1,3-Dichloropropene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	79-00-5	1,1,2-Trichloroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	127-18-4	Tetrachloroethene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	591-78-6	2-Hexanone	540	U	ug/kg	540	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	124-48-1	Dibromochloromethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	106-93-4	1,2-Dibromoethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	108-90-7	Chlorobenzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	100-41-4	Ethylbenzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	95-47-6	o-Xylene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	179601-23-1	m, p-Xylene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	100-42-5	Styrene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	75-25-2	Bromoform	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	98-82-8	Isopropylbenzene	1500		ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	79-34-5	1,1,2,2-Tetrachloroethane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	541-73-1	1,3-Dichlorobenzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	106-46-7	1,4-Dichlorobenzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	95-50-1	1,2-Dichlorobenzene	300		ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	96-12-8	1,2-Dibromo-3-chloropropane	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	120-82-1	1,2,4-Trichlorobenzene	270	U	ug/kg	270	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/16/2015	16:41:00	87-61-6	1,2,3-Trichlorobenzene	270	U	ug/kg	270	12/11/2015	FD-03

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-71-8	Dichlorodifluoromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	74-87-3	Chloromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-01-4	Vinyl chloride	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	74-83-9	Bromomethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-00-3	Chloroethane	310	UJ	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-69-4	Trichlorofluoromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-35-4	1,1-Dichloroethene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	67-64-1	Acetone	620	U	ug/kg	620	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-15-0	Carbon disulfide	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	79-20-9	Methyl acetate	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-09-2	Methylene chloride	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	156-60-5	trans-1,2-Dichloroethene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	1634-04-4	Methyl tert-butyl ether	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-34-3	1,1-Dichloroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	156-59-2	cis-1,2-Dichloroethene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	78-93-3	2-Butanone	620	U	ug/kg	620	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	74-97-5	Bromochloromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	67-66-3	Chloroform	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	71-55-6	1,1,1-Trichloroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	110-82-7	Cyclohexane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	56-23-5	Carbon tetrachloride	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	71-43-2	Benzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	107-06-2	1,2-Dichloroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	79-01-6	Trichloroethene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	108-87-2	Methylcyclohexane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	78-87-5	1,2-Dichloropropane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-27-4	Bromodichloromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	10061-01-5	cis-1,3-Dichloropropene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	108-10-1	4-Methyl-2-pentanone	620	U	ug/kg	620	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	108-88-3	Toluene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	10061-02-6	trans-1,3-Dichloropropene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	79-00-5	1,1,2-Trichloroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	127-18-4	Tetrachloroethene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	591-78-6	2-Hexanone	620	U	ug/kg	620	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	124-48-1	Dibromochloromethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	106-93-4	1,2-Dibromoethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	108-90-7	Chlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	100-41-4	Ethylbenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	95-47-6	o-Xylene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	179601-23-1	m, p-Xylene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	100-42-5	Styrene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	75-25-2	Bromoform	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	98-82-8	Isopropylbenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	79-34-5	1,1,2,2-Tetrachloroethane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	541-73-1	1,3-Dichlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	106-46-7	1,4-Dichlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	95-50-1	1,2-Dichlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	96-12-8	1,2-Dibromo-3-chloropropane	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	120-82-1	1,2,4-Trichlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/16/2015	17:26:00	87-61-6	1,2,3-Trichlorobenzene	310	U	ug/kg	310	12/11/2015	LOR-25A

015820

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-71-8	Dichlorodifluoromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	74-87-3	Chloromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-01-4	Vinyl chloride	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	74-83-9	Bromomethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-00-3	Chloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-69-4	Trichlorofluoromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-35-4	1,1-Dichloroethene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	67-64-1	Acetone	13	U	ug/kg	13	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-15-0	Carbon disulfide	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	79-20-9	Methyl acetate	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-09-2	Methylene chloride	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	156-60-5	trans-1,2-Dichloroethene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	1634-04-4	Methyl tert-butyl ether	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-34-3	1,1-Dichloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	156-59-2	cis-1,2-Dichloroethene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	78-93-3	2-Butanone	13	U	ug/kg	13	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	74-97-5	Bromochloromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	67-66-3	Chloroform	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	71-55-6	1,1,1-Trichloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	110-82-7	Cyclohexane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	56-23-5	Carbon tetrachloride	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	71-43-2	Benzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	107-06-2	1,2-Dichloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	79-01-6	Trichloroethene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	108-87-2	Methylcyclohexane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	78-87-5	1,2-Dichloropropane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-27-4	Bromodichloromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	10061-01-5	cis-1,3-Dichloropropene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	108-10-1	4-Methyl-2-pentanone	13	U	ug/kg	13	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	108-88-3	Toluene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	10061-02-6	trans-1,3-Dichloropropene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	79-00-5	1,1,2-Trichloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	127-18-4	Tetrachloroethene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	591-78-6	2-Hexanone	13	U	ug/kg	13	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	124-48-1	Dibromochloromethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	106-93-4	1,2-Dibromoethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	108-90-7	Chlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	100-41-4	Ethylbenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	95-47-6	o-Xylene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	179601-23-1	m, p-Xylene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	100-42-5	Styrene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	75-25-2	Bromoform	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	98-82-8	Isopropylbenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	79-34-5	1,1,2,2-Tetrachloroethane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	541-73-1	1,3-Dichlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	106-46-7	1,4-Dichlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	95-50-1	1,2-Dichlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	96-12-8	1,2-Dibromo-3-chloropropane	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	120-82-1	1,2,4-Trichlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/21/2015	19:15:00	87-61-6	1,2,3-Trichlorobenzene	6.3	U	ug/kg	6.3	12/11/2015	LOR-25A

015821

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	123-91-1	1,4-Dioxane	79	U*	ug/kg	79	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	100-52-7	Benzaldehyde	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	108-95-2	Phenol	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	111-44-4	Bis(2-Chloroethyl) ether	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	95-48-7	2-Methylphenol	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	98-86-2	Acetophenone	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	106-44-5	4-Methylphenol	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	621-64-7	N-Nitroso-di-n propylamine	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	67-72-1	Hexachloroethane	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	98-95-3	Nitrobenzene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	78-59-1	Isophorone	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	91-20-3	Naphthalene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	106-47-8	4-Chloroaniline	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	87-68-3	Hexachlorobutadiene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	105-60-2	Caprolactam	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	77-47-4	Hexachlorocyclo-pentadiene	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	88-06-2	2,4,6-Trichlorophenol	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	92-52-4	1,1'-Biphenyl	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	88-74-4	2-Nitroaniline	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	606-20-2	2,6-Dinitrotoluene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	51-28-5	2,4-Dinitrophenol	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	132-64-9	Dibenzofuran	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	121-14-2	2,4-Dinitrotoluene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	86-73-7	Fluorene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	7005-72-3	4-Chlorophenyl-phenyl ether	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	118-74-1	Hexachlorobenzene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	1912-24-9	Atrazine	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	120-12-7	Anthracene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	86-74-8	Carbazole	370	U	ug/kg	370	12/09/2015	P-03-SAND

015822

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	206-44-0	Fluoranthene	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	129-00-0	Pyrene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	91-94-1	3,3'-Dichlorobenzidine	370	U*	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	218-01-9	Chrysene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	117-84-0	Di-n-octylphthalate	370	U	ug/kg	370	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18	QL12004-001	S	12/23/2015	12:13:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	91-20-3	Naphthalene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	91-57-6	2-Methylnaphthalene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	208-96-8	Acenaphthylene	39	UJ	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	86-73-7	Fluorene	39	UJ	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	85-01-8	Phenanthrene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	120-12-7	Anthracene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	129-00-0	Pyrene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	218-01-9	Chrysene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	534-52-1	4,6-Dinitro-2-methylphenol	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/09/2015	P-03-SAND
45671	F6R18	F6R18 (SIM)	QL12004-001	S	12/21/2015	10:19:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/09/2015	P-03-SAND

015823

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	100-52-7	Benzaldehyde	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	108-95-2	Phenol	5100	LJ	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	111-44-4	Bis(2-Chloroethyl) ether	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	95-57-8	2-Chlorophenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	95-48-7	2-Methylphenol	28000		ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	98-86-2	Acetophenone	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	106-44-5	4-Methylphenol	27000		ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	621-64-7	N-Nitroso-di-n propylamine	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	67-72-1	Hexachloroethane	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	98-95-3	Nitrobenzene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	78-59-1	Isophorone	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	88-75-5	2-Nitrophenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	105-67-9	2,4-Dimethylphenol	50000		ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	111-91-1	Bis(2-chloroethoxy)methane	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	120-83-2	2,4-Dichlorophenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	91-20-3	Naphthalene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	106-47-8	4-Chloroaniline	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	87-68-3	Hexachlorobutadiene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	105-60-2	Caprolactam	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	59-50-7	4-Chloro-3-methylphenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	91-57-6	2-Methylnaphthalene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	77-47-4	Hexachlorocyclo-pentadiene	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	88-06-2	2,4,6-Trichlorophenol	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	95-95-4	2,4,5-Trichlorophenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	92-52-4	1,1'-Biphenyl	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	91-58-7	2-Chloronaphthalene	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	88-74-4	2-Nitroaniline	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	131-11-3	Dimethylphthalate	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	606-20-2	2,6-Dinitrotoluene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	208-96-8	Acenaphthylene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	99-09-2	3-Nitroaniline	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	83-32-9	Acenaphthene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	51-28-5	2,4-Dinitrophenol	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	100-02-7	4-Nitrophenol	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	132-64-9	Dibenzofuran	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	121-14-2	2,4-Dinitrotoluene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	84-66-2	Diethylphthalate	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	86-73-7	Fluorene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	7005-72-3	4-Chlorophenyl-phenyl ether	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	100-01-6	4-Nitroaniline	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	534-52-1	4,6-Dinitro-2-methylphenol	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	86-30-6	N-Nitrosodiphenylamine	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	101-55-3	4-Bromophenyl-phenylether	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	118-74-1	Hexachlorobenzene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	1912-24-9	Atrazine	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	87-86-5	Pentachlorophenol	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	85-01-8	Phenanthrene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	120-12-7	Anthracene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	86-74-8	Carbazole	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	84-74-2	Di-n-butylphthalate	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	206-44-0	Fluoranthene	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	129-00-0	Pyrene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	85-68-7	Butylbenzylphthalate	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	91-94-1	3,3'-Dichlorobenzidine	7500	U*	ug/kg	7500	12/10/2015	WIL-AA-10

015824

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	56-55-3	Benzo(a)anthracene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	218-01-9	Chrysene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	117-81-7	Bis(2-ethylhexyl)phthalate	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	117-84-0	Di-n-octylphthalate	7500	U	ug/kg	7500	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	205-99-2	Benzo(b)fluoranthene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	207-08-9	Benzo(k)fluoranthene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	50-32-8	Benzo(a)pyrene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	193-39-5	Indeno(1,2,3-cd)pyrene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	53-70-3	Dibenzo(a,h)anthracene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	191-24-2	Benzo(g,h,i)perylene	3800	U*	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20	QL12004-002	S	12/22/2015	12:11:00	58-90-2	2,3,4,6-Tetrachlorophenol	3800	U	ug/kg	3800	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	91-20-3	Naphthalene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	91-57-6	2-Methylnaphthalene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	208-96-8	Acenaphthylene	38	UJ	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	83-32-9	Acenaphthene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	86-73-7	Fluorene	38	UJ	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	87-86-5	Pentachlorophenol	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	85-01-8	Phenanthrene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	120-12-7	Anthracene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	206-44-0	Fluoranthene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	129-00-0	Pyrene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	56-55-3	Benzo(a)anthracene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	218-01-9	Chrysene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	205-99-2	Benzo(b)fluoranthene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	207-08-9	Benzo(k)fluoranthene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	50-32-8	Benzo(a)pyrene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	193-39-5	Indeno(1,2,3-cd)pyrene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	53-70-3	Dibenzo(a,h)anthracene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	191-24-2	Benzo(g,h,i)perylene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	91-94-1	3,3'-Dichlorobenzidine	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	51-28-5	2,4-Dinitrophenol	750	U	ug/kg	750	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	123-91-1	1,4-Dioxane	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	111-44-4	bis(2-Chloroethyl)ether	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	108-60-1	2,2'-Oxybis(1-chloropropane)	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	621-64-7	N-Nitrosodi-n-propylamine	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	67-72-1	Hexachloroethane	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	98-95-3	Nitrobenzene	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	106-47-8	4-Chloroaniline	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	87-68-3	Hexachlorobutadiene	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	95-94-3	1,2,4,5-Tetrachlorobenzene	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	88-06-2	2,4,6-Trichlorophenol	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	92-52-4	1,1'-Biphenyl	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	606-20-2	2,6-Dinitrotoluene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	121-14-2	2,4-Dinitrotoluene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	132-64-9	Dibenzofuran	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	534-52-1	4,6-Dinitro-2-methylphenol	75	U	ug/kg	75	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	118-74-1	Hexachlorobenzene	38	U	ug/kg	38	12/10/2015	WIL-AA-10
45671	F6R18	F6R20 (SIM)	QL12004-002	S	12/21/2015	10:45:00	1912-24-9	Atrazine	75	U	ug/kg	75	12/10/2015	WIL-AA-10

015825

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	123-91-1	1,4-Dioxane	840	U*	ug/kg	840	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	100-52-7	Benzaldehyde	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	108-95-2	Phenol	1300	LJ	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	111-44-4	Bis(2-Chloroethyl) ether	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	95-57-8	2-Chlorophenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	95-48-7	2-Methylphenol	6200		ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	98-86-2	Acetophenone	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	106-44-5	4-Methylphenol	5000		ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	621-64-7	N-Nitroso-di-n propylamine	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	67-72-1	Hexachloroethane	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	98-95-3	Nitrobenzene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	78-59-1	Isophorone	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	88-75-5	2-Nitrophenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	105-67-9	2,4-Dimethylphenol	7100		ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	111-91-1	Bis(2-chloroethoxy)methane	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	120-83-2	2,4-Dichlorophenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	91-20-3	Naphthalene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	106-47-8	4-Chloroaniline	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	87-68-3	Hexachlorobutadiene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	105-60-2	Caprolactam	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	59-50-7	4-Chloro-3-methylphenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	91-57-6	2-Methylnaphthalene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	77-47-4	Hexachlorocyclo-pentadiene	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	88-06-2	2,4,6-Trichlorophenol	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	95-95-4	2,4,5-Trichlorophenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	92-52-4	1,1'-Biphenyl	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	91-58-7	2-Chloronaphthalene	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	88-74-4	2-Nitroaniline	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	131-11-3	Dimethylphthalate	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	606-20-2	2,6-Dinitrotoluene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	208-96-8	Acenaphthylene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	99-09-2	3-Nitroaniline	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	83-32-9	Acenaphthene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	51-28-5	2,4-Dinitrophenol	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	100-02-7	4-Nitrophenol	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	132-64-9	Dibenzofuran	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	121-14-2	2,4-Dinitrotoluene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	84-66-2	Diethylphthalate	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	86-73-7	Fluorene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	7005-72-3	4-Chlorophenyl-phenyl ether	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	100-01-6	4-Nitroaniline	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	534-52-1	4,6-Dinitro-2-methylphenol	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	86-30-6	N-Nitrosodiphenylamine	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	101-55-3	4-Bromophenyl-phenylether	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	118-74-1	Hexachlorobenzene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	1912-24-9	Atrazine	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	87-86-5	Pentachlorophenol	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	85-01-8	Phenanthrene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	120-12-7	Anthracene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	86-74-8	Carbazole	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	84-74-2	Di-n-butylphthalate	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	206-44-0	Fluoranthene	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	129-00-0	Pyrene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	85-68-7	Butylbenzylphthalate	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	91-94-1	3,3'-Dichlorobenzidine	3900	U*	ug/kg	3900	12/10/2015	WIL-AA-11

015826

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	56-55-3	Benzo(a)anthracene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	218-01-9	Chrysene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	117-84-0	Di-n-octylphthalate	3900	U	ug/kg	3900	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	205-99-2	Benzo(b)fluoranthene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	207-08-9	Benzo(k)fluoranthene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	50-32-8	Benzo(a)pyrene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	53-70-3	Dibenzo(a,h)anthracene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	191-24-2	Benzo(g,h,i)perylene	2000	U*	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21	QL12004-003	S	12/23/2015	12:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	2000	U	ug/kg	2000	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	91-20-3	Naphthalene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	91-57-6	2-Methylnaphthalene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	208-96-8	Acenaphthylene	41	UJ	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	83-32-9	Acenaphthene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	86-73-7	Fluorene	41	UJ	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	87-86-5	Pentachlorophenol	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	85-01-8	Phenanthrene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	120-12-7	Anthracene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	206-44-0	Fluoranthene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	129-00-0	Pyrene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	56-55-3	Benzo(a)anthracene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	218-01-9	Chrysene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	205-99-2	Benzo(b)fluoranthene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	207-08-9	Benzo(k)fluoranthene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	50-32-8	Benzo(a)pyrene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	193-39-5	Indeno(1,2,3-cd)pyrene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	53-70-3	Dibenzo(a,h)anthracene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	191-24-2	Benzo(g,h,i)perylene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	121-14-2	2,4-Dinitrotoluene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	132-64-9	Dibenzofuran	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	606-20-2	2,6-Dinitrotoluene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	92-52-4	1,1'-Biphenyl	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	88-06-2	2,4,6-Trichlorophenol	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	95-94-3	1,2,4,5-Tetrachlorobenzene	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	87-68-3	Hexachlorobutadiene	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	106-47-8	4-Chloroaniline	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	98-95-3	Nitrobenzene	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	67-72-1	Hexachloroethane	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	621-64-7	N-Nitrosodi-n-propylamine	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	108-60-1	2,2'-Oxybis(1-chloropropane)	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	111-44-4	bis(2-Chloroethyl)ether	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	123-91-1	1,4-Dioxane	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	51-28-5	2,4-Dinitrophenol	790	U	ug/kg	790	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	91-94-1	3,3'-Dichlorobenzidine	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	1912-24-9	Atrazine	79	U	ug/kg	79	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	118-74-1	Hexachlorobenzene	41	U	ug/kg	41	12/10/2015	WIL-AA-11
45671	F6R18	F6R21 (SIM)	QL12004-003	S	12/21/2015	11:11:00	534-52-1	4,6-Dinitro-2-methylphenol	79	U	ug/kg	79	12/10/2015	WIL-AA-11

015827

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	123-91-1	1,4-Dioxane	3300	U*	ug/kg	3300	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	100-52-7	Benzaldehyde	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	108-95-2	Phenol	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	111-44-4	Bis(2-Chloroethyl) ether	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	95-57-8	2-Chlorophenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	95-48-7	2-Methylphenol	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	108-60-1	2,2'-Oxybis(1-chloropropane)	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	98-86-2	Acetophenone	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	106-44-5	4-Methylphenol	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	621-64-7	N-Nitroso-di-n propylamine	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	67-72-1	Hexachloroethane	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	98-95-3	Nitrobenzene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	78-59-1	Isophorone	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	88-75-5	2-Nitrophenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	105-67-9	2,4-Dimethylphenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	111-91-1	Bis(2-chloroethoxy)methane	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	120-83-2	2,4-Dichlorophenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	91-20-3	Naphthalene	5500	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	106-47-8	4-Chloroaniline	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	87-68-3	Hexachlorobutadiene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	105-60-2	Caprolactam	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	59-50-7	4-Chloro-3-methylphenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	91-57-6	2-Methylnaphthalene	37000		ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	77-47-4	Hexachlorocyclo-pentadiene	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	88-06-2	2,4,6-Trichlorophenol	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	95-95-4	2,4,5-Trichlorophenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	92-52-4	1,1'-Biphenyl	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	91-58-7	2-Chloronaphthalene	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	88-74-4	2-Nitroaniline	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	131-11-3	Dimethylphthalate	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	606-20-2	2,6-Dinitrotoluene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	208-96-8	Acenaphthylene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	99-09-2	3-Nitroaniline	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	83-32-9	Acenaphthene	1300	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	51-28-5	2,4-Dinitrophenol	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	100-02-7	4-Nitrophenol	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	132-64-9	Dibenzofuran	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	121-14-2	2,4-Dinitrotoluene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	84-66-2	Diethylphthalate	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	86-73-7	Fluorene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	7005-72-3	4-Chlorophenyl-phenyl ether	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	100-01-6	4-Nitroaniline	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	534-52-1	4,6-Dinitro-2-methylphenol	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	86-30-6	N-Nitrosodiphenylamine	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	95-94-3	1,2,4,5-Tetrachlorobenzene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	101-55-3	4-Bromophenyl-phenylether	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	118-74-1	Hexachlorobenzene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	1912-24-9	Atrazine	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	87-86-5	Pentachlorophenol	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	85-01-8	Phenanthrene	12000		ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	120-12-7	Anthracene	1500	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	86-74-8	Carbazole	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	84-74-2	Di-n-butylphthalate	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	206-44-0	Fluoranthene	16000	U*	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	129-00-0	Pyrene	4500	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	85-68-7	Butylbenzylphthalate	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	91-94-1	3,3'-Dichlorobenzidine	16000	U*	ug/kg	16000	12/10/2015	WIL-41

015828

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	56-55-3	Benzo(a)anthracene	1300	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	218-01-9	Chrysene	2900	*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	117-81-7	Bis(2-ethylhexyl)phthalate	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	117-84-0	Di-n-octylphthalate	16000	U	ug/kg	16000	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	205-99-2	Benzo(b)fluoranthene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	207-08-9	Benzo(k)fluoranthene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	50-32-8	Benzo(a)pyrene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	193-39-5	Indeno(1,2,3-cd)pyrene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	53-70-3	Dibenzo(a,h)anthracene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	191-24-2	Benzo(g,h,i)perylene	8100	U*	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23	QL12004-004	S	12/22/2015	13:08:00	58-90-2	2,3,4,6-Tetrachlorophenol	8100	U	ug/kg	8100	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	91-20-3	Naphthalene	9900	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	91-57-6	2-Methylnaphthalene	22000	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	208-96-8	Acenaphthylene	40	UJ	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	83-32-9	Acenaphthene	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	86-73-7	Fluorene	980	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	87-86-5	Pentachlorophenol	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	85-01-8	Phenanthrene	8300	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	120-12-7	Anthracene	40	U*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	206-44-0	Fluoranthene	150	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	129-00-0	Pyrene	5300	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	56-55-3	Benzo(a)anthracene	1500	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	218-01-9	Chrysene	4100	*	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	205-99-2	Benzo(b)fluoranthene	1000		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	207-08-9	Benzo(k)fluoranthene	120		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	50-32-8	Benzo(a)pyrene	950		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	193-39-5	Indeno(1,2,3-cd)pyrene	94		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	53-70-3	Dibenzo(a,h)anthracene	100		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	191-24-2	Benzo(g,h,i)perylene	180		ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	51-28-5	2,4-Dinitrophenol	780	U	ug/kg	780	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	111-44-4	bis(2-Chloroethyl)ether	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	108-60-1	2,2'-Oxybis(1-chloropropane)	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	67-72-1	Hexachloroethane	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	98-95-3	Nitrobenzene	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	106-47-8	4-Chloroaniline	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	87-68-3	Hexachlorobutadiene	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	95-94-3	1,2,4,5-Tetrachlorobenzene	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	88-06-2	2,4,6-Trichlorophenol	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	92-52-4	1,1'-Biphenyl	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	132-64-9	Dibenzofuran	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	534-52-1	4,6-Dinitro-2-methylphenol	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	1912-24-9	Atrazine	78	U	ug/kg	78	12/10/2015	WIL-41
45671	F6R18	F6R23 (SIM)	QL12004-004	S	12/21/2015	11:37:00	91-94-1	3,3'-Dichlorobenzidine	78	U	ug/kg	78	12/10/2015	WIL-41

015829

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	91-20-3	Naphthalene	16000		ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	91-57-6	2-Methylnaphthalene	77000	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	208-96-8	Acenaphthylene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	83-32-9	Acenaphthene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	86-73-7	Fluorene	4100	J	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	87-86-5	Pentachlorophenol	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	85-01-8	Phenanthrene	26000	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	120-12-7	Anthracene	7200	J	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	206-44-0	Fluoranthene	2100	J	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	129-00-0	Pyrene	9300		ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	56-55-3	Benzo(a)anthracene	2900		ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	218-01-9	Chrysene	7000		ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	205-99-2	Benzo(b)fluoranthene	1300	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	207-08-9	Benzo(k)fluoranthene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	50-32-8	Benzo(a)pyrene	1300	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	193-39-5	Indeno(1,2,3-cd)pyrene	360	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	53-70-3	Dibenzo(a,h)anthracene	390	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	191-24-2	Benzo(g,h,i)perylene	710	*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	118-74-1	Hexachlorobenzene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	534-52-1	4,6-Dinitro-2-methylphenol	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	132-64-9	Dibenzofuran	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	121-14-2	2,4-Dinitrotoluene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	606-20-2	2,6-Dinitrotoluene	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	92-52-4	1,1'-Biphenyl	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	88-06-2	2,4,6-Trichlorophenol	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	95-94-3	1,2,4,5-Tetrachlorobenzene	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	87-68-3	Hexachlorobutadiene	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	106-47-8	4-Chloroaniline	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	1912-24-9	Atrazine	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	67-72-1	Hexachloroethane	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	621-64-7	N-Nitrosodi-n-propylamine	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	108-60-1	2,2'-Oxybis(1-chloropropane)	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	111-44-4	bis(2-Chloroethyl)ether	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	123-91-1	1,4-Dioxane	1200	U*	ug/kg	1200		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	51-28-5	2,4-Dinitrophenol	24000	U*	ug/kg	24000		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	91-94-1	3,3'-Dichlorobenzidine	2400	U*	ug/kg	2400		
45671	F6R18	F6R23RX (SIM)	QL12004-004	S	12/23/2015	16:01:00	98-95-3	Nitrobenzene	2400	U*	ug/kg	2400		
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	123-91-1	1,4-Dioxane	1800	U*	ug/kg	1800	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	100-52-7	Benzaldehyde	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	108-95-2	Phenol	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	111-44-4	Bis(2-Chloroethyl) ether	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	95-57-8	2-Chlorophenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	95-48-7	2-Methylphenol	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	108-60-1	2,2'-Oxybis(1-chloropropane)	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	98-86-2	Acetophenone	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	106-44-5	4-Methylphenol	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	621-64-7	N-Nitroso-di-n propylamine	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	67-72-1	Hexachloroethane	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	98-95-3	Nitrobenzene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	78-59-1	Isophorone	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	88-75-5	2-Nitrophenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	105-67-9	2,4-Dimethylphenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	111-91-1	Bis(2-chloroethoxy)methane	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	120-83-2	2,4-Dichlorophenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	91-20-3	Naphthalene	2200	*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	106-47-8	4-Chloroaniline	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	87-68-3	Hexachlorobutadiene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	105-60-2	Caprolactam	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	59-50-7	4-Chloro-3-methylphenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	91-57-6	2-Methylnaphthalene	4800		ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	77-47-4	Hexachlorocyclo-pentadiene	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	88-06-2	2,4,6-Trichlorophenol	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	95-95-4	2,4,5-Trichlorophenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	92-52-4	1,1'-Biphenyl	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	91-58-7	2-Chloronaphthalene	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	88-74-4	2-Nitroaniline	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	131-11-3	Dimethylphthalate	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	606-20-2	2,6-Dinitrotoluene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	208-96-8	Acenaphthylene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	99-09-2	3-Nitroaniline	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	83-32-9	Acenaphthene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	51-28-5	2,4-Dinitrophenol	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	100-02-7	4-Nitrophenol	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	132-64-9	Dibenzofuran	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	121-14-2	2,4-Dinitrotoluene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	84-66-2	Diethylphthalate	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	86-73-7	Fluorene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	7005-72-3	4-Chlorophenyl-phenyl ether	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	100-01-6	4-Nitroaniline	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	534-52-1	4,6-Dinitro-2-methylphenol	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	86-30-6	N-Nitrosodiphenylamine	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	101-55-3	4-Bromophenyl-phenylether	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	118-74-1	Hexachlorobenzene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	1912-24-9	Atrazine	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	87-86-5	Pentachlorophenol	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	85-01-8	Phenanthrene	3000	*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	120-12-7	Anthracene	690	*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	86-74-8	Carbazole	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	84-74-2	Di-n-butylphthalate	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	206-44-0	Fluoranthene	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	129-00-0	Pyrene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	85-68-7	Butylbenzylphthalate	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	91-94-1	3,3'-Dichlorobenzidine	8400	U*	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	56-55-3	Benzo(a)anthracene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	218-01-9	Chrysene	510	*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	117-81-7	Bis(2-ethylhexyl)phthalate	4300	U	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	117-84-0	Di-n-octylphthalate	8400	U	ug/kg	8400	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	205-99-2	Benzo(b)fluoranthene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	207-08-9	Benzo(k)fluoranthene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	50-32-8	Benzo(a)pyrene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	193-39-5	Indeno(1,2,3-cd)pyrene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	53-70-3	Dibenzo(a,h)anthracene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	191-24-2	Benzo(g,h,i)perylene	4300	U*	ug/kg	4300	12/11/2015	TF-34-01
45671	F6R18	F6R24	QL12004-005	S	12/22/2015	13:37:00	58-90-2	2,3,4,6-Tetrachlorophenol	4300	U	ug/kg	4300	12/11/2015	TF-34-01

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	91-20-3	Naphthalene	2900	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	91-57-6	2-Methylnaphthalene	5200	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	208-96-8	Acenaphthylene	43	UJ	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	83-32-9	Acenaphthene	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	86-73-7	Fluorene	1400	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	87-86-5	Pentachlorophenol	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	85-01-8	Phenanthrene	4000	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	120-12-7	Anthracene	43	U*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	206-44-0	Fluoranthene	670	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	129-00-0	Pyrene	5100	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	56-55-3	Benzo(a)anthracene	620	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	218-01-9	Chrysene	1600	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	205-99-2	Benzo(b)fluoranthene	300	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	207-08-9	Benzo(k)fluoranthene	54	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	50-32-8	Benzo(a)pyrene	470	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	193-39-5	Indeno(1,2,3-cd)pyrene	51	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	53-70-3	Dibenzo(a,h)anthracene	23	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	191-24-2	Benzo(g,h,i)perylene	110	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	132-64-9	Dibenzofuran	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	121-14-2	2,4-Dinitrotoluene	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	92-52-4	1,1'-Biphenyl	190	*	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	606-20-2	2,6-Dinitrotoluene	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	88-06-2	2,4,6-Trichlorophenol	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	95-94-3	1,2,4,5-Tetrachlorobenzene	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	87-68-3	Hexachlorobutadiene	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	106-47-8	4-Chloroaniline	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	98-95-3	Nitrobenzene	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	67-72-1	Hexachloroethane	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	621-64-7	N-Nitrosodi-n-propylamine	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	108-60-1	2,2'-Oxybis(1-chloropropane)	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	111-44-4	bis(2-Chloroethyl)ether	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	123-91-1	1,4-Dioxane	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	51-28-5	2,4-Dinitrophenol	840	U	ug/kg	840	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	91-94-1	3,3'-Dichlorobenzidine	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	1912-24-9	Atrazine	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	534-52-1	4,6-Dinitro-2-methylphenol	84	U	ug/kg	84	12/11/2015	TF-34-01
45671	F6R18	F6R24 (SIM)	QL12004-005	S	12/21/2015	12:04:00	118-74-1	Hexachlorobenzene	43	U	ug/kg	43	12/11/2015	TF-34-01
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	91-20-3	Naphthalene	38000		ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	91-57-6	2-Methylnaphthalene	91000	*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	208-96-8	Acenaphthylene	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	83-32-9	Acenaphthene	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	86-73-7	Fluorene	11000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	87-86-5	Pentachlorophenol	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	85-01-8	Phenanthrene	86000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	120-12-7	Anthracene	40000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	206-44-0	Fluoranthene	9100	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	129-00-0	Pyrene	70000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	56-55-3	Benzo(a)anthracene	8000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	218-01-9	Chrysene	17000	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	205-99-2	Benzo(b)fluoranthene	2800	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	207-08-9	Benzo(k)fluoranthene	890	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	50-32-8	Benzo(a)pyrene	5400	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	193-39-5	Indeno(1,2,3-cd)pyrene	1100	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	53-70-3	Dibenzo(a,h)anthracene	760	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	191-24-2	Benzo(g,h,i)perylene	2200	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	87-68-3	Hexachlorobutadiene	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1300	U*	ug/kg	1300		

015832

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	88-06-2	2,4,6-Trichlorophenol	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	92-52-4	1,1'-Biphenyl	3600	J	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	606-20-2	2,6-Dinitrotoluene	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	121-14-2	2,4-Dinitrotoluene	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	132-64-9	Dibenzofuran	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	534-52-1	4,6-Dinitro-2-methylphenol	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	118-74-1	Hexachlorobenzene	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	1912-24-9	Atrazine	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	91-94-1	3,3'-Dichlorobenzidine	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	51-28-5	2,4-Dinitrophenol	13000	U*	ug/kg	13000		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	123-91-1	1,4-Dioxane	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	111-44-4	bis(2-Chloroethyl)ether	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	621-64-7	N-Nitrosodi-n-propylamine	660	U*	ug/kg	660		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	67-72-1	Hexachloroethane	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	98-95-3	Nitrobenzene	1300	U*	ug/kg	1300		
45671	F6R18	F6R24RX (SIM)	QL12004-005	S	12/23/2015	16:54:00	106-47-8	4-Chloroaniline	1300	U*	ug/kg	1300		
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	100-52-7	Benzaldehyde	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	108-95-2	Phenol	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	111-44-4	Bis(2-Chloroethyl) ether	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	95-57-8	2-Chlorophenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	95-48-7	2-Methylphenol	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	98-86-2	Acetophenone	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	106-44-5	4-Methylphenol	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	621-64-7	N-Nitroso-di-n propylamine	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	67-72-1	Hexachloroethane	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	98-95-3	Nitrobenzene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	78-59-1	Isophorone	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	88-75-5	2-Nitrophenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	105-67-9	2,4-Dimethylphenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	111-91-1	Bis(2-chloroethoxy)methane	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	120-83-2	2,4-Dichlorophenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	91-20-3	Naphthalene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	106-47-8	4-Chloroaniline	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	87-68-3	Hexachlorobutadiene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	105-60-2	Caprolactam	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	59-50-7	4-Chloro-3-methylphenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	91-57-6	2-Methylnaphthalene	740	*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	77-47-4	Hexachlorocyclo-pentadiene	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	88-06-2	2,4,6-Trichlorophenol	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	95-95-4	2,4,5-Trichlorophenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	92-52-4	1,1'-Biphenyl	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	91-58-7	2-Chloronaphthalene	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	88-74-4	2-Nitroaniline	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	131-11-3	Dimethylphthalate	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	606-20-2	2,6-Dinitrotoluene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	208-96-8	Acenaphthylene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	99-09-2	3-Nitroaniline	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	83-32-9	Acenaphthene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	51-28-5	2,4-Dinitrophenol	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	100-02-7	4-Nitrophenol	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	132-64-9	Dibenzofuran	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	121-14-2	2,4-Dinitrotoluene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	84-66-2	Diethylphthalate	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	86-73-7	Fluorene	4000	U*	ug/kg	4000	12/11/2015	LOR-18

015833

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	7005-72-3	4-Chlorophenyl-phenyl ether	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	100-01-6	4-Nitroaniline	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	534-52-1	4,6-Dinitro-2-methylphenol	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	86-30-6	N-Nitrosodiphenylamine	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	101-55-3	4-Bromophenyl-phenylether	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	118-74-1	Hexachlorobenzene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	1912-24-9	Atrazine	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	87-86-5	Pentachlorophenol	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	85-01-8	Phenanthrene	880	*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	120-12-7	Anthracene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	86-74-8	Carbazole	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	84-74-2	Di-n-butylphthalate	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	206-44-0	Fluoranthene	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	129-00-0	Pyrene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	85-68-7	Butylbenzylphthalate	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	91-94-1	3,3'-Dichlorobenzidine	7700	U*	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	56-55-3	Benzo(a)anthracene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	218-01-9	Chrysene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	117-81-7	Bis(2-ethylhexyl)phthalate	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	117-84-0	Di-n-octylphthalate	7700	U	ug/kg	7700	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	205-99-2	Benzo(b)fluoranthene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	207-08-9	Benzo(k)fluoranthene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	50-32-8	Benzo(a)pyrene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	193-39-5	Indeno(1,2,3-cd)pyrene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	53-70-3	Dibenzo(a,h)anthracene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	191-24-2	Benzo(g,h,i)perylene	4000	U*	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25	QL12004-006	S	12/22/2015	14:05:00	58-90-2	2,3,4,6-Tetrachlorophenol	4000	U	ug/kg	4000	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	91-20-3	Naphthalene	960	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	91-57-6	2-Methylnaphthalene	1400	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	208-96-8	Acenaphthylene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	83-32-9	Acenaphthene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	86-73-7	Fluorene	510	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	87-86-5	Pentachlorophenol	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	85-01-8	Phenanthrene	1500	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	120-12-7	Anthracene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	206-44-0	Fluoranthene	120	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	129-00-0	Pyrene	270	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	56-55-3	Benzo(a)anthracene	75	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	218-01-9	Chrysene	230	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	205-99-2	Benzo(b)fluoranthene	80	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	207-08-9	Benzo(k)fluoranthene	21	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	50-32-8	Benzo(a)pyrene	43	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	193-39-5	Indeno(1,2,3-cd)pyrene	8.8	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	53-70-3	Dibenzo(a,h)anthracene	8.6	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	191-24-2	Benzo(g,h,i)perylene	19	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	51-28-5	2,4-Dinitrophenol	780	U*	ug/kg	780	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	123-91-1	1,4-Dioxane	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	111-44-4	bis(2-Chloroethyl)ether	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	108-60-1	2,2'-Oxybis(1-chloropropane)	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	621-64-7	N-Nitrosodi-n-propylamine	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	67-72-1	Hexachloroethane	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	98-95-3	Nitrobenzene	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	106-47-8	4-Chloroaniline	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	87-68-3	Hexachlorobutadiene	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	95-94-3	1,2,4,5-Tetrachlorobenzene	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	88-06-2	2,4,6-Trichlorophenol	78	U*	ug/kg	78	12/11/2015	LOR-18

015834

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	92-52-4	1,1'-Biphenyl	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	606-20-2	2,6-Dinitrotoluene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	121-14-2	2,4-Dinitrotoluene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	132-64-9	Dibenzofuran	220	*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	534-52-1	4,6-Dinitro-2-methylphenol	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	118-74-1	Hexachlorobenzene	40	U*	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	1912-24-9	Atrazine	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25 (SIM)	QL12004-006	S	12/21/2015	12:30:00	91-94-1	3,3'-Dichlorobenzidine	78	U*	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	91-20-3	Naphthalene	740		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	91-57-6	2-Methylnaphthalene	1100		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	208-96-8	Acenaphthylene	40	UJ	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	83-32-9	Acenaphthene	40	UJ	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	86-73-7	Fluorene	590	J	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	87-86-5	Pentachlorophenol	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	85-01-8	Phenanthrene	1900		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	120-12-7	Anthracene	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	206-44-0	Fluoranthene	220		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	129-00-0	Pyrene	350		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	56-55-3	Benzo(a)anthracene	82		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	218-01-9	Chrysene	220		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	205-99-2	Benzo(b)fluoranthene	79		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	207-08-9	Benzo(k)fluoranthene	24	LJ	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	50-32-8	Benzo(a)pyrene	48		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	193-39-5	Indeno(1,2,3-cd)pyrene	12	LJ	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	53-70-3	Dibenzo(a,h)anthracene	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	191-24-2	Benzo(g,h,i)perylene	30	LJ	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	51-28-5	2,4-Dinitrophenol	780	U	ug/kg	780	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	111-44-4	bis(2-Chloroethyl)ether	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	108-60-1	2,2'-Oxybis(1-chloropropane)	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	67-72-1	Hexachloroethane	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	98-95-3	Nitrobenzene	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	106-47-8	4-Chloroaniline	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	87-68-3	Hexachlorobutadiene	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	95-94-3	1,2,4,5-Tetrachlorobenzene	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	88-06-2	2,4,6-Trichlorophenol	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	92-52-4	1,1'-Biphenyl	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	132-64-9	Dibenzofuran	250		ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	534-52-1	4,6-Dinitro-2-methylphenol	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	1912-24-9	Atrazine	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R25RE (SIM)	QL12004-006	S	12/22/2015	10:39:30	91-94-1	3,3'-Dichlorobenzidine	78	U	ug/kg	78	12/11/2015	LOR-18
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	123-91-1	1,4-Dioxane	1600	U*	ug/kg	1600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	100-52-7	Benzaldehyde	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	108-95-2	Phenol	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	111-44-4	Bis(2-Chloroethyl) ether	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	95-57-8	2-Chlorophenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	95-48-7	2-Methylphenol	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	98-86-2	Acetophenone	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	106-44-5	4-Methylphenol	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	621-64-7	N-Nitroso-di-n propylamine	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	67-72-1	Hexachloroethane	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	98-95-3	Nitrobenzene	3900	U*	ug/kg	3900	12/11/2015	FD-03

015835

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	78-59-1	Isophorone	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	88-75-5	2-Nitrophenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	105-67-9	2,4-Dimethylphenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	111-91-1	Bis(2-chloroethoxy)methane	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	120-83-2	2,4-Dichlorophenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	91-20-3	Naphthalene	390	*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	106-47-8	4-Chloroaniline	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	87-68-3	Hexachlorobutadiene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	105-60-2	Caprolactam	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	59-50-7	4-Chloro-3-methylphenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	91-57-6	2-Methylnaphthalene	3000	*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	77-47-4	Hexachlorocyclo-pentadiene	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	88-06-2	2,4,6-Trichlorophenol	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	95-95-4	2,4,5-Trichlorophenol	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	92-52-4	1,1'-Biphenyl	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	91-58-7	2-Chloronaphthalene	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	88-74-4	2-Nitroaniline	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	131-11-3	Dimethylphthalate	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	606-20-2	2,6-Dinitrotoluene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	208-96-8	Acenaphthylene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	99-09-2	3-Nitroaniline	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	83-32-9	Acenaphthene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	51-28-5	2,4-Dinitrophenol	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	100-02-7	4-Nitrophenol	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	132-64-9	Dibenzofuran	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	121-14-2	2,4-Dinitrotoluene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	84-66-2	Diethylphthalate	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	86-73-7	Fluorene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	7005-72-3	4-Chlorophenyl-phenyl ether	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	100-01-6	4-Nitroaniline	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	534-52-1	4,6-Dinitro-2-methylphenol	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	86-30-6	N-Nitrosodiphenylamine	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	101-55-3	4-Bromophenyl-phenylether	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	118-74-1	Hexachlorobenzene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	1912-24-9	Atrazine	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	87-86-5	Pentachlorophenol	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	85-01-8	Phenanthrene	490	*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	120-12-7	Anthracene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	86-74-8	Carbazole	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	84-74-2	Di-n-butylphthalate	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	206-44-0	Fluoranthene	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	129-00-0	Pyrene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	85-68-7	Butylbenzylphthalate	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	91-94-1	3,3'-Dichlorobenzidine	7600	U*	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	56-55-3	Benzo(a)anthracene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	218-01-9	Chrysene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	117-81-7	Bis(2-ethylhexyl)phthalate	3900	U	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	117-84-0	Di-n-octylphthalate	7600	U	ug/kg	7600	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	205-99-2	Benzo(b)fluoranthene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	207-08-9	Benzo(k)fluoranthene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	50-32-8	Benzo(a)pyrene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	53-70-3	Dibenzo(a,h)anthracene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	191-24-2	Benzo(g,h,i)perylene	3900	U*	ug/kg	3900	12/11/2015	FD-03
45671	F6R18	F6R26	QL12004-007	S	12/22/2015	14:34:00	58-90-2	2,3,4,6-Tetrachlorophenol	3900	U	ug/kg	3900	12/11/2015	FD-03

015836

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	91-20-3	Naphthalene	630	*	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	91-57-6	2-Methylnaphthalene	5200	*	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	208-96-8	Acenaphthylene	39	UJ	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	86-73-7	Fluorene	430	*	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	85-01-8	Phenanthrene	910	*	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	120-12-7	Anthracene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	206-44-0	Fluoranthene	120	J	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	129-00-0	Pyrene	280	J	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	56-55-3	Benzo(a)anthracene	56	J	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	218-01-9	Chrysene	150	J	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	205-99-2	Benzo(b)fluoranthene	48		ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	207-08-9	Benzo(k)fluoranthene	11	LJ	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	50-32-8	Benzo(a)pyrene	37	LJ	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	191-24-2	Benzo(g,h,i)perylene	15	LJ	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	132-64-9	Dibenzofuran	310	*	ug/kg	39	12/11/2015	FD-03
45671	F6R18	F6R26 (SIM)	QL12004-007	S	12/21/2015	12:56:00	534-52-1	4,6-Dinitro-2-methylphenol	76	U	ug/kg	76	12/11/2015	FD-03
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	91-20-3	Naphthalene	4000		ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	91-57-6	2-Methylnaphthalene	15000		ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	208-96-8	Acenaphthylene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	83-32-9	Acenaphthene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	86-73-7	Fluorene	700		ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	87-86-5	Pentachlorophenol	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	85-01-8	Phenanthrene	1900	J	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	120-12-7	Anthracene	320	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	206-44-0	Fluoranthene	140	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	129-00-0	Pyrene	250	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	56-55-3	Benzo(a)anthracene	62	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	218-01-9	Chrysene	210	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	205-99-2	Benzo(b)fluoranthene	90	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	207-08-9	Benzo(k)fluoranthene	44	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	50-32-8	Benzo(a)pyrene	57	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	193-39-5	Indeno(1,2,3-cd)pyrene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	53-70-3	Dibenzo(a,h)anthracene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	191-24-2	Benzo(g,h,i)perylene	140	*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	121-14-2	2,4-Dinitrotoluene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	132-64-9	Dibenzofuran	630	J	ug/kg	590		

015837

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	67-72-1	Hexachloroethane	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	534-52-1	4,6-Dinitro-2-methylphenol	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	118-74-1	Hexachlorobenzene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	1912-24-9	Atrazine	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	621-64-7	N-Nitrosodi-n-propylamine	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	111-44-4	bis(2-Chloroethyl)ether	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	123-91-1	1,4-Dioxane	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	91-94-1	3,3'-Dichlorobenzidine	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	51-28-5	2,4-Dinitrophenol	11000	U*	ug/kg	11000		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	98-95-3	Nitrobenzene	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	606-20-2	2,6-Dinitrotoluene	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	92-52-4	1,1'-Biphenyl	590	U*	ug/kg	590		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	88-06-2	2,4,6-Trichlorophenol	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	87-68-3	Hexachlorobutadiene	1100	U*	ug/kg	1100		
45671	F6R18	F6R26RX (SIM)	QL12004-007	S	12/23/2015	16:27:00	106-47-8	4-Chloroaniline	1100	U*	ug/kg	1100		
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	123-91-1	1,4-Dioxane	410	U*	ug/kg	410	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	100-52-7	Benzaldehyde	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	108-95-2	Phenol	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	111-44-4	Bis(2-Chloroethyl) ether	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	95-57-8	2-Chlorophenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	95-48-7	2-Methylphenol	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	98-86-2	Acetophenone	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	106-44-5	4-Methylphenol	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	621-64-7	N-Nitroso-di-n propylamine	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	67-72-1	Hexachloroethane	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	98-95-3	Nitrobenzene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	78-59-1	Isophorone	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	88-75-5	2-Nitrophenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	105-67-9	2,4-Dimethylphenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	111-91-1	Bis(2-chloroethoxy)methane	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	120-83-2	2,4-Dichlorophenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	91-20-3	Naphthalene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	106-47-8	4-Chloroaniline	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	87-68-3	Hexachlorobutadiene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	105-60-2	Caprolactam	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	59-50-7	4-Chloro-3-methylphenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	91-57-6	2-Methylnaphthalene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	77-47-4	Hexachlorocyclo-pentadiene	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	88-06-2	2,4,6-Trichlorophenol	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	95-95-4	2,4,5-Trichlorophenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	92-52-4	1,1'-Biphenyl	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	91-58-7	2-Chloronaphthalene	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	88-74-4	2-Nitroaniline	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	131-11-3	Dimethylphthalate	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	606-20-2	2,6-Dinitrotoluene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	208-96-8	Acenaphthylene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	99-09-2	3-Nitroaniline	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	83-32-9	Acenaphthene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	51-28-5	2,4-Dinitrophenol	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	100-02-7	4-Nitrophenol	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	132-64-9	Dibenzofuran	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	121-14-2	2,4-Dinitrotoluene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	84-66-2	Diethylphthalate	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	86-73-7	Fluorene	990	U*	ug/kg	990	12/11/2015	LOR-25A

015838

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	7005-72-3	4-Chlorophenyl-phenyl ether	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	100-01-6	4-Nitroaniline	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	534-52-1	4,6-Dinitro-2-methylphenol	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	86-30-6	N-Nitrosodiphenylamine	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	95-94-3	1,2,4,5-Tetrachlorobenzene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	101-55-3	4-Bromophenyl-phenylether	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	118-74-1	Hexachlorobenzene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	1912-24-9	Atrazine	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	87-86-5	Pentachlorophenol	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	85-01-8	Phenanthrene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	120-12-7	Anthracene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	86-74-8	Carbazole	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	84-74-2	Di-n-butylphthalate	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	206-44-0	Fluoranthene	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	129-00-0	Pyrene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	85-68-7	Butylbenzylphthalate	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	91-94-1	3,3'-Dichlorobenzidine	1900	U*	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	56-55-3	Benzo(a)anthracene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	218-01-9	Chrysene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	117-81-7	Bis(2-ethylhexyl)phthalate	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	117-84-0	Di-n-octylphthalate	1900	U	ug/kg	1900	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	205-99-2	Benzo(b)fluoranthene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	207-08-9	Benzo(k)fluoranthene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	50-32-8	Benzo(a)pyrene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	193-39-5	Indeno(1,2,3-cd)pyrene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	53-70-3	Dibenzo(a,h)anthracene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	191-24-2	Benzo(g,h,i)perylene	990	U*	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27	QL12004-008	S	12/23/2015	13:10:00	58-90-2	2,3,4,6-Tetrachlorophenol	990	U	ug/kg	990	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	91-20-3	Naphthalene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	91-57-6	2-Methylnaphthalene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	208-96-8	Acenaphthylene	39	UJ	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	83-32-9	Acenaphthene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	86-73-7	Fluorene	39	UJ	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	87-86-5	Pentachlorophenol	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	85-01-8	Phenanthrene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	120-12-7	Anthracene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	206-44-0	Fluoranthene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	129-00-0	Pyrene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	56-55-3	Benzo(a)anthracene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	218-01-9	Chrysene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	205-99-2	Benzo(b)fluoranthene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	207-08-9	Benzo(k)fluoranthene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	50-32-8	Benzo(a)pyrene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	193-39-5	Indeno(1,2,3-cd)pyrene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	53-70-3	Dibenzo(a,h)anthracene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	191-24-2	Benzo(g,h,i)perylene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	534-52-1	4,6-Dinitro-2-methylphenol	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	118-74-1	Hexachlorobenzene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	1912-24-9	Atrazine	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	91-94-1	3,3'-Dichlorobenzidine	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	51-28-5	2,4-Dinitrophenol	760	U	ug/kg	760	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	123-91-1	1,4-Dioxane	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	111-44-4	bis(2-Chloroethyl)ether	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	108-60-1	2,2'-Oxybis(1-chloropropane)	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	621-64-7	N-Nitrosodi-n-propylamine	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	67-72-1	Hexachloroethane	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	98-95-3	Nitrobenzene	76	U	ug/kg	76	12/11/2015	LOR-25A

015839

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	106-47-8	4-Chloroaniline	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	87-68-3	Hexachlorobutadiene	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	95-94-3	1,2,4,5-Tetrachlorobenzene	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	88-06-2	2,4,6-Trichlorophenol	76	U	ug/kg	76	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	92-52-4	1,1'-Biphenyl	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	606-20-2	2,6-Dinitrotoluene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	121-14-2	2,4-Dinitrotoluene	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R27 (SIM)	QL12004-008	S	12/21/2015	13:22:00	132-64-9	Dibenzofuran	39	U	ug/kg	39	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	123-91-1	1,4-Dioxane	83	U*	ug/kg	83	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	100-52-7	Benzaldehyde	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	108-95-2	Phenol	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	111-44-4	Bis(2-Chloroethyl) ether	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	95-48-7	2-Methylphenol	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	108-60-1	2,2'-Oxybis(1-chloropropane)	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	98-86-2	Acetophenone	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	106-44-5	4-Methylphenol	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	621-64-7	N-Nitroso-di-n propylamine	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	67-72-1	Hexachloroethane	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	98-95-3	Nitrobenzene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	78-59-1	Isophorone	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	91-20-3	Naphthalene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	106-47-8	4-Chloroaniline	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	87-68-3	Hexachlorobutadiene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	105-60-2	Caprolactam	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	77-47-4	Hexachlorocyclo-pentadiene	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	88-06-2	2,4,6-Trichlorophenol	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	92-52-4	1,1'-Biphenyl	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	88-74-4	2-Nitroaniline	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	606-20-2	2,6-Dinitrotoluene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	51-28-5	2,4-Dinitrophenol	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	132-64-9	Dibenzofuran	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	121-14-2	2,4-Dinitrotoluene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	86-73-7	Fluorene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	7005-72-3	4-Chlorophenyl-phenyl ether	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	118-74-1	Hexachlorobenzene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	1912-24-9	Atrazine	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	12/11/2015	LOR-25A

015840

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	120-12-7	Anthracene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	86-74-8	Carbazole	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	206-44-0	Fluoranthene	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	129-00-0	Pyrene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	91-94-1	3,3'-Dichlorobenzidine	390	U*	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	218-01-9	Chrysene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	117-84-0	Di-n-octylphthalate	390	U	ug/kg	390	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28	QL12004-009	S	12/23/2015	13:38:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	91-20-3	Naphthalene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	91-57-6	2-Methylnaphthalene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	208-96-8	Acenaphthylene	40	UJ	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	83-32-9	Acenaphthene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	86-73-7	Fluorene	40	UJ	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	87-86-5	Pentachlorophenol	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	85-01-8	Phenanthrene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	120-12-7	Anthracene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	206-44-0	Fluoranthene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	129-00-0	Pyrene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	56-55-3	Benzo(a)anthracene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	218-01-9	Chrysene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	205-99-2	Benzo(b)fluoranthene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	207-08-9	Benzo(k)fluoranthene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	50-32-8	Benzo(a)pyrene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	193-39-5	Indeno(1,2,3-cd)pyrene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	53-70-3	Dibenzo(a,h)anthracene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	191-24-2	Benzo(g,h,i)perylene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	121-14-2	2,4-Dinitrotoluene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	132-64-9	Dibenzofuran	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	67-72-1	Hexachloroethane	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	534-52-1	4,6-Dinitro-2-methylphenol	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	118-74-1	Hexachlorobenzene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	1912-24-9	Atrazine	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	621-64-7	N-Nitrosodi-n-propylamine	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	108-60-1	2,2'-Oxybis(1-chloropropane)	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	111-44-4	bis(2-Chloroethyl)ether	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	123-91-1	1,4-Dioxane	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	91-94-1	3,3'-Dichlorobenzidine	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	51-28-5	2,4-Dinitrophenol	770	U	ug/kg	770	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	98-95-3	Nitrobenzene	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	606-20-2	2,6-Dinitrotoluene	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	92-52-4	1,1'-Biphenyl	40	U	ug/kg	40	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	88-06-2	2,4,6-Trichlorophenol	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	95-94-3	1,2,4,5-Tetrachlorobenzene	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	87-68-3	Hexachlorobutadiene	77	U	ug/kg	77	12/11/2015	LOR-25A
45671	F6R18	F6R28 (SIM)	QL12004-009	S	12/21/2015	13:48:00	106-47-8	4-Chloroaniline	77	U	ug/kg	77	12/11/2015	LOR-25A

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. F6R18 SDG Nos. To Follow Mod. Ref No. 2544.1 Date Rec 01/05/16

EPA Lab ID: EQI

Lab Location: West Columbia, SC

Region: 6 Audit No.: 45671/F6R18

Re_Submitted CSF? Yes X No

Box No(s): 1

COMMENTS:

Item	Description
3.	The auditor added some missing page numbers.
4.	The page numbers were omitted for Internal Lab Sample Transfer Records (pages 1308 to 1315) on Form DC-2-7. The auditor made proper entries.
14. /15.	Sample tags were not used for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?		X	
4. Are enclosed documents listed?		X	
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Wallace Doong Wallace Doong / ESAT Data Reviewer Date 01/08/16

Audited by: Date

Signature Printed Name/Title

DC-2__

015842

In Reference To: O-1319
Case No.: 45671 SDG(s): F6R18

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	EQI
Lab Contact:	Robert Zhu
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Wallace Doong - ESAT

In reference to data for the fraction(s):

CSF Deliverables LMVOA SVOA/SVOA-SIM

Summary of Questions/Issues:

CSF Deliverables
The "Date" for "Completed By" was omitted on Form DC-2-7 (page 15). Please correct and resubmit this page.

LMVOA
The "Level" should be "MED" for Form 6A (pages 270, 271, 301, and 302), Form 7A (pages 369, 370, 377, 378, 385, and 386), and Form 8A (pages 47 and 48). Please correct and resubmit these pages with proper pagination.

SVOA and SVOA--SIM
1. **SVOA-SIM:** For Form 8A (pages 960 to 965), the IS3 should be phenanthrene-d10 and results for IS6 (1,4-Dichlorobenzene-d4) were omitted for all samples. Please correct and resubmit these pages with proper pagination.

2. **SVOA and SVOA-SIM:** The recoveries for 1,4-Dioxane-d8 (DMC1) were outside the QC limits for SVOA method blank SBLK12 and SVOA-SIM method blanks SBLK13 and SBLK38, but contract required reanalyses and/or re-extractions (SOM02.3, p. D-54/SVOA, sec. 12.1.2.5.2 and D-55/SVOA, sec. 12.1.2.6.3) were not performed. Please submit additional information or explain.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM02.3, p. B-11, sec. 2.2.2). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 5 business days** (SOM02.3, p. B-11, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015843

F6R18

USEPA CLP COC (LAB COPY)
DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220318

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14095

No: 6-121115-162946-0014
Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0019	F6R18	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1137 (4 C), 1138 (4 C) (2)	P-03-SAND	12/09/2015 12:10	
277-0021	F6R20	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1151 (4 C), 1152 (4 C) (2)	WIL-AA-10	12/10/2015 12:50	
277-0022	F6R21	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1158 (4 C), 1159 (4 C) (2)	WIL-AA-11	12/10/2015 13:55	
277-0024	F6R23	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1172 (4 C), 1173 (4 C) (2)	WIL-41	12/10/2015 10:50	
277-0025	F6R24	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1179 (4 C), 1180 (4 C) (2)	TF-34-01	12/11/2015 10:05	
277-0026	F6R25	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1186 (4 C), 1187 (4 C) (2)	LOR-18	12/11/2015 11:20	
277-0027	F6R26	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1193 (4 C), 1194 (4 C) (2)	FD-03	12/11/2015 11:55	
277-0028	F6R27	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1200 (4 C), 1201 (4 C) (2)	LOR-25A	12/11/2015 13:55	
277-0029	F6R28	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1207 (4 C), 1208 (4 C) (2)	LOR-25A	12/11/2015 14:45	

Page 35 of 38

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: SVOAs/SVOASIMs=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (Soils)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/Analysis	LMSERAS	12/11/15 15:55			
				12/12/15 0840	OK

T = 5.9 °C

5 of 1315

FGR18

USEPA CLP COC (LAB COPY)

DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220329

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: DW14035

No: 6-121115-161914-0012

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0025	F6R24	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1175 (4 C), 1176 (4 C), 1177 (4 C), 1178 (4 C) (4)	TF-34-01	12/11/2015 10:05	
277-0026	F6R25	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1182 (4 C), 1183 (4 C), 1184 (4 C), 1185 (4 C) (4)	LOR-18	12/11/2015 11:20	
277-0027	F6R26	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1189 (4 C), 1190 (4 C), 1191 (4 C), 1192 (4 C) (4)	FD-03	12/11/2015 11:55	
277-0028	F6R27	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1196 (4 C), 1197 (4 C), 1198 (4 C), 1199 (4 C) (4)	LOR-25A	12/11/2015 13:55	
277-0029	F6R28	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1203 (4 C), 1204 (4 C), 1205 (4 C), 1206 (4 C) (4)	LOR-25A	12/11/2015 14:45	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AIC/Analysis	[signature] SERAS	12/11/15 15:30			
			[signature]	12/12/15 0840	OK

T = 6.7°C

Page 36 of 38

6 of 1315

Date: 11/09/2015	MA: 2544.1	Title: SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	Method: Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications — Not applicable ☐

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

015846

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

015847

ADDENDUM

Data Validation Report
Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

HoldingTimes_Preservation

NONE FOUND

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

TUNE

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

InitialCalibration

Method - Volatile Organics

Test Name: EXES-793
Defect Message: The following samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Use professional judgment to qualify nondetects.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE

Bromochloromethane	VSTD005PE
1,2,4-Trichlorobenzene	VSTD005PE

Method - Semivolatiles

Test Name: EXES-793
Defect Message: The following samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Use professional judgment to qualify nondetects.

Associated Samples: F6R18, F6R20, F6R21, F6R23, F6R24, F6R25, F6R26, F6R27, F6R28, SBLK12

2,6-Dinitrotoluene	SSTD005NG
2,4-Dinitrotoluene	SSTD005NG
2,3,4,6-Tetrachlorophenol	SSTD005NG

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

ContinuingCalibrationVerification

Method - Volatile Organics

Test Name: EXES-1209
Defect Message: The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detecteds are qualified as estimated J. Nondetects are qualified as estimated UJ.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE

Chloroethane	VSTD050QA

Method - Semivolatiles by SIM

Test Name: EXES-1209
Defect Message: The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detecteds are qualified as estimated J. Nondetects are qualified as estimated UJ.

Associated Samples: F6R23RX, F6R24RX, F6R25, F6R26RX, SBLK13, SBLK38

Acenaphthylene	SSTD0.2OW
Acenaphthene	SSTD0.2OW, SSTD0.2PC

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Blanks

Method - Volatile Organics

Test Name: EXES-1167

Defect Message: The following samples have the same tentatively identified compounds (TIC) detected as in the associated storage blank. TIC results reported in the associated storage blank exceed concentration criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R24, F6R25, F6R26, F6R27

Unknown-01	F6R26, F6R24, F6R25, F6R27

Test Name: EXES-1174

Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE, VBLKSA

Dichlorodifluoromethane	F6R26, F6R24, VBLKSA, VBLKPE, F6R27, F6R25
Chloromethane	VBLKSA, F6R24, F6R25, F6R26, VBLKPE, F6R27
Vinyl chloride	F6R26, F6R24, VBLKSA, F6R27, F6R25, VBLKPE
Bromomethane	F6R25, F6R26, F6R24, VBLKPE, F6R27, VBLKSA
Chloroethane	VBLKSA, VBLKPE, F6R26, F6R24, F6R27, F6R25
Trichlorofluoromethane	F6R25, F6R26, F6R24, VBLKSA, VBLKPE, F6R27
1,1-Dichloroethene	VBLKSA, F6R25, F6R24, VBLKPE, F6R27, F6R26
1,1,2-Trichloro-1,2,2-Trifluoroethane	F6R26, F6R25, VBLKPE, VBLKSA, F6R24, F6R27
Acetone	F6R24, VBLKPE, F6R27, F6R26, VBLKSA, F6R25
Carbon disulfide	F6R24, VBLKPE, F6R26, VBLKSA, F6R25, F6R27
Methyl acetate	F6R27, VBLKPE, F6R25, F6R24, VBLKSA, F6R26
Methylene chloride	F6R25, F6R26, F6R24, F6R27, VBLKPE, VBLKSA
trans-1,2-Dichloroethene	VBLKSA, VBLKPE, F6R25, F6R24, F6R26, F6R27
Methyl tert-butyl ether	F6R25, VBLKPE, VBLKSA, F6R27, F6R24, F6R26
1,1-Dichloroethane	VBLKPE, VBLKSA, F6R24, F6R26, F6R27, F6R25
cis-1,2-Dichloroethene	F6R26, F6R27, F6R25, F6R24, VBLKSA, VBLKPE
2-Butanone	VBLKPE, F6R27, F6R25, VBLKSA, F6R24, F6R26
Bromochloromethane	VBLKSA, F6R27, F6R24, VBLKPE, F6R26, F6R25
Chloroform	F6R26, VBLKPE, F6R24, VBLKSA, F6R25, F6R27

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1174

Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE, VBLKSA

1,1,1-Trichloroethane	F6R24, F6R25, VBLKSA, VBLKPE, F6R26, F6R27
Cyclohexane	VBLKSA, F6R24, F6R25, F6R27, VBLKPE, F6R26
Carbon tetrachloride	F6R25, F6R24, F6R27, VBLKPE, F6R26, VBLKSA
Benzene	F6R26, F6R27, VBLKSA, F6R24, VBLKPE, F6R25
1,2-Dichloroethane	F6R26, VBLKSA, VBLKPE, F6R25, F6R27, F6R24
Trichloroethene	VBLKPE, F6R25, F6R26, VBLKSA, F6R27, F6R24
Methylcyclohexane	VBLKSA, F6R25, VBLKPE, F6R26, F6R24, F6R27
1,2-Dichloropropane	F6R27, F6R25, F6R24, F6R26, VBLKPE, VBLKSA
Bromodichloromethane	VBLKSA, F6R26, F6R25, F6R24, VBLKPE, F6R27
cis-1,3-Dichloropropene	F6R27, VBLKPE, F6R25, F6R26, VBLKSA, F6R24
4-Methyl-2-pentanone	F6R25, VBLKSA, VBLKPE, F6R27, F6R26, F6R24
Toluene	F6R25, VBLKPE, VBLKSA, F6R24, F6R26, F6R27
trans-1,3-Dichloropropene	VBLKPE, F6R24, F6R26, F6R27, VBLKSA, F6R25
1,1,2-Trichloroethane	F6R26, F6R25, F6R27, F6R24, VBLKPE, VBLKSA
Tetrachloroethene	F6R24, F6R25, VBLKSA, F6R27, F6R26, VBLKPE
2-Hexanone	VBLKSA, F6R27, F6R25, VBLKPE, F6R24, F6R26
Dibromochloromethane	F6R26, VBLKPE, F6R27, F6R25, F6R24, VBLKSA
1,2-Dibromoethane	F6R25, F6R26, VBLKSA, VBLKPE, F6R24, F6R27
Chlorobenzene	F6R27, F6R25, F6R24, VBLKSA, F6R26, VBLKPE
Ethylbenzene	F6R26, F6R27, VBLKSA, F6R24, VBLKPE, F6R25
o-Xylene	VBLKPE, F6R27, F6R25, F6R24, F6R26, VBLKSA
m, p-Xylene	VBLKSA, F6R26, F6R25, F6R24, VBLKPE, F6R27
Styrene	F6R24, VBLKSA, F6R26, F6R27, VBLKPE, F6R25
Bromoform	F6R24, VBLKPE, F6R26, F6R25, VBLKSA, F6R27
Isopropylbenzene	F6R24, F6R26, VBLKSA, F6R25, F6R27, VBLKPE
1,1,2,2-Tetrachloroethane	VBLKSA, F6R27, F6R24, F6R25, F6R26, VBLKPE
1,3-Dichlorobenzene	F6R25, F6R26, VBLKSA, F6R27, VBLKPE, F6R24
1,4-Dichlorobenzene	F6R25, F6R26, VBLKPE, F6R27, VBLKSA, F6R24
1,2-Dichlorobenzene	F6R26, F6R24, F6R25, VBLKPE, VBLKSA, F6R27
1,2-Dibromo-3-chloropropane	F6R24, F6R26, F6R27, VBLKSA, F6R25, VBLKPE
1,2,4-Trichlorobenzene	VBLKPE, F6R27, F6R25, F6R24, VBLKSA, F6R26
1,2,3-Trichlorobenzene	VBLKSA, F6R25, F6R27, F6R26, VBLKPE, F6R24
1-Methyldecahydronaphthalene	F6R25
1-Phenyl-1-butene	F6R25
1H-Indene, 2,3-dihydro-1,2-dimethyl-	F6R24
1H-Indene, 2,3-dihydro-1,6-dimethyl-	F6R24
1H-Indene, 2,3-dihydro-4,6-dimethyl-	F6R24

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1174

Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE, VBLKSA

1H-Indene, 2,3-dihydro-5-methyl-	F6R24
2-Butene, 3-chloro-1-phenyl-, (Z)-	F6R26
2-Norbornanone, 1,3,7,7-tetramethyl-, ox	F6R27
Benzene, (1,2-dimethyl-1-propenyl)-	F6R24, F6R25
Benzene, (2-methyl-1-butenyl)-	F6R26
Benzene, 1,2,3,4-tetramethyl-	F6R24, F6R26
Benzene, 1,2,3-trimethyl-	F6R24
Benzene, 1,2,4,5-tetramethyl-	F6R24
Benzene, 1,3-diethyl-	F6R25
Benzene, 1,3-diethyl-5-methyl-	F6R24
Benzene, 1,4-diethyl-	F6R24
Benzene, 1-(1-methylethenyl)-2-(1-methyl	F6R26
Benzene, 1-ethyl-2,3-dimethyl-	F6R25, F6R24
Benzene, 1-ethyl-2,4-dimethyl-	F6R25, F6R24
Benzene, 1-ethyl-2-methyl-	F6R24
Benzene, 1-ethyl-3-methyl-	F6R24
Benzene, 1-methyl-3-propyl-	F6R24
Benzene, 1-methyl-4-propyl-	F6R24
Benzene, 2,4-diethyl-1-methyl-	F6R25
Benzene, 2-ethenyl-1,4-dimethyl-	F6R25
Benzene, 2-ethyl-1,4-dimethyl-	F6R24
Benzene, 4-ethyl-1,2-dimethyl-	F6R24
Decane	F6R24
Indan, 1-methyl-	F6R24
Naphthalene	F6R24
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-tr	F6R27
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	F6R24
Naphthalene, 1-methyl-	F6R24
Naphthalene, 2-methyl-	F6R24
Naphthalene, decahydro-2,6-dimethyl-	F6R27
Naphthalene, decahydro-2-methyl-	F6R26
Pentalene, octahydro-2-methyl-	F6R26
Unknown Alkane-01	F6R24, F6R26, F6R25
Unknown Alkane-02	F6R24, F6R25, F6R26
Unknown Alkane-03	F6R25, F6R24, F6R26
Unknown Alkane-04	F6R25, F6R24
Unknown-01	F6R25, F6R27, VBLKSA, F6R26, F6R24

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1174

Defect Message: The following samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: F6R24, F6R25, F6R26, F6R27, VBLKPE, VBLKSA

Unknown-02	F6R25, F6R26, F6R27, F6R24
Unknown-03	F6R24, F6R27, F6R25, F6R26
Unknown-04	F6R24, F6R26, F6R27, F6R25
Unknown-05	F6R25, F6R24, F6R26, F6R27
Unknown-06	F6R26, F6R27, F6R25, F6R24
Unknown-07	F6R27, F6R25, F6R24, F6R26
Unknown-08	F6R27, F6R24, F6R25, F6R26
Unknown-09	F6R25, F6R27, F6R26
Unknown-10	F6R26, F6R25, F6R27
Unknown-11	F6R25, F6R27, F6R26
Unknown-12	F6R26, F6R25, F6R27
Unknown-13	F6R27, F6R25, F6R26
Unknown-14	F6R26, F6R25, F6R27
Unknown-15	F6R27, F6R26, F6R25
Unknown-16	F6R27, F6R26, F6R25
Unknown-17	F6R27, F6R26
Unknown-18	F6R26, F6R27
Unknown-19	F6R27, F6R26
Unknown-20	F6R27
Unknown-21	F6R27
Unknown-22	F6R27
Unknown-23	F6R27
Unknown-24	F6R27
Unknown-25	F6R27
o-Cymene	F6R24, F6R26, F6R25
p-Cymene	F6R24
trans,trans-1,6-Dimethylspiro[4.5]decane	F6R27
trans-Decalin, 2-methyl-	F6R25, F6R26

Method - Semivolatiles by SIM

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-1104

Defect Message: The following samples have analyte results reported less than CRQLs. The associated method blank results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

Associated Samples: F6R20, F6R21, F6R27

Naphthalene	F6R20
2-Methylnaphthalene	F6R27, F6R20, F6R21

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

DMC_Surrogate

Method - Volatile Organics

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R24, F6R25, F6R26, VIBLK60, VIBLK61, VIBLK62, VIBLK63

Chloroethane-d5	VIBLK63
1,1-Dichloroethene-d2	VIBLK62, VIBLK63, F6R25
2-Butanone-d5	VIBLK60, VIBLK61, VIBLK62
Chloroform-d	VIBLK60
Benzene-d6	F6R24
1,2-Dichloropropane-d6	F6R24, F6R26
Toluene-d8	F6R24
1,1,2,2-Tetrachloroethane-d2	F6R25, VIBLK61
1,2-Dichlorobenzene-d4	F6R25, F6R24

Method - Semivolatiles

Test Name: EXES-1346
Defect Message: The following samples have DMC/surrogate percent recoveries less than the primary minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

Associated Samples: F6R23, F6R24

Phenol-d5	F6R23
4-Methylphenol-d8	F6R23
Nitrobenzene-d5	F6R23
2-Nitrophenol-d4	F6R23
2,4-Dichlorophenol-d3	F6R23
4,6-Dinitro-2-methylphenol-d2	F6R24

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-787
Defect Message: The following samples have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as unusable R.

Associated Samples: F6R23

1,4-Dioxane-d8	F6R23
2-Chlorophenol-d4	F6R23

Test Name: EXES-973
Defect Message: The following method blanks have DMC/surrogate percent recoveries outside criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: SBLK12

1,4-Dioxane-d8	SBLK12

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R23, F6R24, F6R25, F6R26

4-Chloroaniline-d4	F6R24, F6R25, F6R26, F6R23
4-Nitrophenol-d4	F6R25, F6R26, F6R23
4,6-Dinitro-2-methylphenol-d2	F6R23

Method - Semivolatiles by SIM

Test Name: EXES-787
Defect Message: The following samples have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as unusable R.

Associated Samples: F6R23, F6R23RX, F6R24, F6R25, F6R26, F6R27

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

Test Name: EXES-787
Defect Message: The following samples have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as unusable R.

Associated Samples: F6R23, F6R23RX, F6R24, F6R25, F6R26, F6R27

Fluoranthene-d10	F6R24, F6R23, F6R26, F6R25
2-Methylnaphthalene-d10	F6R23RX, F6R26, F6R24, F6R23, F6R27, F6R25

Test Name: EXES-982
Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: F6R20, F6R23RX, F6R24RX, F6R26RX, F6R27

Fluoranthene-d10	F6R27, F6R20, F6R26RX, F6R24RX, F6R23RX
2-Methylnaphthalene-d10	F6R20, F6R26RX, F6R24RX

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

MatrixSpikes

NONE FOUND

Data Validation Report

Data Review Results

Tue, 5 Jan 2016 10:51:29

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

InternalStandard

Method - Semivolatiles

Test Name: EXES-1524
Defect Message: The following samples have internal standard area response greater than maximum criteria. Detected compounds are qualified estimated J-. Nondetects are not qualified.

Associated Samples: F6R23, F6R25, F6R26

Naphthalene-d8	F6R26, F6R23, F6R25

Method - Semivolatiles by SIM

Test Name: EXES-1524
Defect Message: The following samples have internal standard area response greater than maximum criteria. Detected compounds are qualified estimated J-. Nondetects are not qualified.

Associated Samples: F6R23, F6R24, F6R25, F6R26

Naphthalene-d8	F6R26, F6R24
Acenaphthene-d10	F6R23, F6R26, F6R25, F6R24
Phenanthrene-d10	F6R25, F6R24, F6R26
Chrysene-d12	F6R26, F6R24, F6R25, F6R23

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

PercentSolids

NONE FOUND

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
Lab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

SampleAnalysis

NONE FOUND

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
ab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

DetectionLimit

Method - Semivolatiles

est Name: EXES-790
efect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified s estimated J.

ssociated Samples: F6R20, F6R21, F6R23, F6R24, F6R25, F6R26

enol	F6R21, F6R20
aphthalene	F6R23, F6R26, F6R24
Methylnaphthalene	F6R26, F6R25
enaphthene	F6R23
enanthrene	F6R26, F6R24, F6R25
thracene	F6R24, F6R23
rene	F6R23
nzo(a)anthracene	F6R23
rysene	F6R24, F6R23

Method - Semivolatiles by SIM

est Name: EXES-790
efect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified s estimated J.

ssociated Samples: F6R20, F6R21, F6R23RX, F6R24, F6R25, F6R26, F6R26RX, F6R27, SBLK13

aphthalene	F6R20, SBLK13
Methylnaphthalene	F6R21, F6R27, F6R20, SBLK13
thracene	F6R26RX
uoranthene	F6R26RX
rene	F6R26RX
rysene	F6R26RX
nzo(k)fluoranthene	F6R26, F6R25

Data Validation Report

Data Review Results

Lab Code: EQI	SDG: F6R18	Contract: EPW14035	Submission Group Id: 30115344
.ab Name: Shealy Environmental Services, Inc.	Case: 45671	Client: EPA Region 6	SOW: SOM02.3

est Name: EXES-790

efect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified ; estimated J.

ssociated Samples: F6R20, F6R21, F6R23RX, F6R24, F6R25, F6R26, F6R26RX, F6R27, SBLK13

:nzo(a)pyrene	F6R26
deno(1,2,3-cd)pyrene	F6R23RX, F6R25
ibenzo(a,h)anthracene	F6R23RX, F6R24
:nzo(g,h,i)perylene	F6R23RX, F6R26, F6R25, F6R26RX

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 26, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: F6R29

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 22, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Wallace Doong, Data Reviewer, ESAT WD

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1602-211-0055
TDF No.:	6-16-123A
ESAT File No.:	O-1320

Attached is the data review summary for Case # 45671
SDG # F6R29
Site Wilcox Oil

015868

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45671	SITE	Wilcox Oil
LABORATORY	EQI	NO. OF SAMPLES	8
CONTRACT#	EP-W-14-035	MATRIX	Water
SDG#	F6R29	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM02.3/MA2544.1 & 2545.1	REVIEWER'S NAME	Wallace Doong
SF#	303DD2GG	COMPLETION DATE	January 22, 2016

SAMPLE NO.					
	F6R29	F6R34			
	F6R30	F6R35			
	F6R32	F6R36			
	F6R33	F6R39			

DATA ASSESSMENT SUMMARY

	TVOA	TVOA-SIM	SVOA	SVOA-SIM
1. HOLDING TIMES	O	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O	O
3. CALIBRATIONS	O	M	O	M
4. BLANKS	M	M	M	O
5. DMC/SURROGATES	O	O	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A	N/A	N/A
7. OTHER QC	N/A	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	O	O
9. COMPOUND ID/QUANTITATION	M	O	M	O
10. PERFORMANCE/COMPLETENESS	O	O	O	O
11. OVERALL ASSESSMENT	M	M	M	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: **TVOA** Two acetone were raised above the CRQL because of shipping contamination. Sample F6R33 had inconsistent 1,1,2-trichloroethane results between analyses. **TVOA-SIM** Chloroform failed the technical %RSD and %D calibration criteria. Two chloroform were raised above the CRQL because of laboratory contamination. **SVOA** One phenol, one 2-methylphenol, one 4-methyl-phenol, and two 2,4-dimethylphenol were raised above the CRQLs because of laboratory contamination. Sample F6R32 had inconsistent 4-methylphenol results between analyses. **SVOA-SIM** Acenaphthylene failed the technical %D calibration criteria.

015869

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** F6R29 **SITE** Wilcox Oil **LAB** EQI

COMMENTS: This SDG consisted of eight water samples for TVOA, TVOA-SIM, SVOA, and/or SVOA-SIM analyses following CLP SOW SOM02.3. The samples were also subject to Modified Analysis Requests 2544.1 and 2545.1 (MA 2544.1 and 2545.1), which required the laboratory to analyze the samples for additional 15 TVOA and 19 SVOA compounds and lower CRQLs for the TVOA-SIM and SVOA-SIM analyses. Samples F6R39 and F6R30 only required TVOA/TVOA-SIM and SVOA/SVOA-SIM analyses, respectively. MS/MSD analyses were not requested for this case.

S4VEM Review was performed for this package as requested by the Region. The target compounds of concern with the required CRQLs are listed in MA 2544.1 and 2545.1 (pages 37 to 39 of this report). Although both the full scan and SIM analysis results were available for all TVOA and SVOA samples, the SIM analysis results are designated for use only when the corresponding full scan analysis results were non-detects or below the CRQLs. The target compounds of concern reported at concentrations above the CRQLs were 1,1,2-trichloroethane, benzene and/or chloroform in TVOA/TVOA-SIM samples F6R32 and F6R33 and dibenzofuran and/or PAHs in SVOA-SIM samples F6R29, F6R30, F6R33, and F6R34.

TVOA Because of high matrix background, the laboratory initially analyzed samples F6R32 and F6R34 at 500X and 20X dilution, respectively. The laboratory also diluted (5X) and reanalyzed sample F6R33 because of high concentrations of xylenes.

SVOA Because of laboratory contamination and outlying DMC recoveries for the method blank, the laboratory re-extracted all samples except sample F6R32. The original analysis results were recommended for use because the re-extractions exceeded the holding time limit. Samples F6R30, F6R32, F6R33, and F6R34 were concentrated to a larger final extract volume and/or analyzed at dilution (up to 20X) because of high matrix background. Sample F6R32 was further diluted (1,000X and 2,000X) and reanalyzed because of high concentrations of phenols.

SVOA-SIM Samples F6R30, F6R32, F6R33, and F6R34 were concentrated to a larger final extract volume and/or analyzed at dilution (up to 20X) because of high matrix background. Samples F6R32 and F6R33 were reanalyzed because of outlying IS responses. The reanalyses repeated the problem, demonstrating matrix effect. The results from the original analyses were recommended for use for samples F6R32 and F6R33.

OVERALL ASSESSMENT: Some results were qualified for two TVOA, all TVOA-SIM, three SVOA, and all SVOA-SIM samples because of problems with laboratory/shipping contamination, calibration, and/or compound quantitation. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF deliverable and reporting issues (see Resubmission Request). The laboratory response may impact the DST.

015870

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

015871

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

015872

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

015873

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	67-64-1	Acetone	5.4	UM	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-09-2	Methylene chloride	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	108-10-1	4-Methyl-2-pentanone	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	108-88-3	Toluene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	179601-23-1	m, p-Xylene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	100-42-5	Styrene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/21/2015	19:23:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-DISCH

015874

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	87-61-6	1,2,3-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	106-46-7	1,4-Dichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	120-82-1	1,2,4-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	106-93-4	1,2-Dibromoethane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	591-78-6	2-Hexanone	0.50	U	ug/L	0.50	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	79-00-5	1,1,2-Trichloroethane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	10061-01-5	cis-1,3-Dichloropropene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	75-27-4	Bromodichloromethane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	78-87-5	1,2-Dichloropropane	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	107-06-2	1,2-Dichloroethene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	71-43-2	Benzene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	56-23-5	Carbon tetrachloride	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/23/2015	09:05:00	67-66-3	Chloroform	0.050	UJ	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-71-8	Dichlorodifluoromethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	74-87-3	Chloromethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-01-4	Vinyl chloride	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	74-83-9	Bromomethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-00-3	Chloroethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-69-4	Trichlorofluoromethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-35-4	1,1-Dichloroethene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	67-64-1	Acetone	5400		ug/L	2500	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-15-0	Carbon disulfide	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	79-20-9	Methyl acetate	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-09-2	Methylene chloride	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	156-60-5	trans-1,2-Dichloroethene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	1634-04-4	Methyl tert-butyl ether	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-34-3	1,1-Dichloroethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	156-59-2	cis-1,2-Dichloroethene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	78-93-3	2-Butanone	1700	LJ	ug/L	2500	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	74-97-5	Bromochloromethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	67-66-3	Chloroform	140	*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	71-55-6	1,1,1-Trichloroethane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	110-82-7	Cyclohexane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	56-23-5	Carbon tetrachloride	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	71-43-2	Benzene	140	*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	107-06-2	1,2-Dichloroethane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	79-01-6	Trichloroethene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	108-87-2	Methylcyclohexane	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	78-87-5	1,2-Dichloropropane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-27-4	Bromodichloromethane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	10061-01-5	cis-1,3-Dichloropropene	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	108-10-1	4-Methyl-2-pentanone	2500	U	ug/L	2500	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	108-88-3	Toluene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	10061-02-6	trans-1,3-Dichloropropene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	79-00-5	1,1,2-Trichloroethane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	127-18-4	Tetrachloroethene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	591-78-6	2-Hexanone	2500	U*	ug/L	2500	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	124-48-1	Dibromochloromethane	250	U	ug/L	250	12/14/2015	AA-GW-03

015875

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	106-93-4	1,2-Dibromoethane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	108-90-7	Chlorobenzene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	100-41-4	Ethylbenzene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	95-47-6	o-Xylene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	179601-23-1	m, p-Xylene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	100-42-5	Styrene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	75-25-2	Bromoform	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	98-82-8	Isopropylbenzene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	79-34-5	1,1,2,2-Tetrachloroethane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	541-73-1	1,3-Dichlorobenzene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	106-46-7	1,4-Dichlorobenzene	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	95-50-1	1,2-Dichlorobenzene	250	U	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	96-12-8	1,2-Dibromo-3-chloropropane	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	120-82-1	1,2,4-Trichlorobenzene	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	12:58:00	87-61-6	1,2,3-Trichlorobenzene	250	U*	ug/L	250	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	71-43-2	Benzene	2400		ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	87-61-6	1,2,3-Trichlorobenzene	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	67-66-3	Chloroform	1100	J	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	107-06-2	1,2-Dichloroethane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	78-87-5	1,2-Dichloropropane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	75-27-4	Bromodichloromethane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	10061-01-5	cis-1,3-Dichloropropene	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	79-00-5	1,1,2-Trichloroethane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	591-78-6	2-Hexanone	6300	U	ug/L	6300	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	106-93-4	1,2-Dibromoethane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	79-34-5	1,1,2,2-Tetrachloroethane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	106-46-7	1,4-Dichlorobenzene	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	96-12-8	1,2-Dibromo-3-chloropropane	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	120-82-1	1,2,4-Trichlorobenzene	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/23/2015	13:56:00	56-23-5	Carbon tetrachloride	630	U	ug/L	630	12/14/2015	AA-GW-03
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	67-64-1	Acetone	22	UM	ug/L	5.0	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-09-2	Methylene chloride	0.42	LJ	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	78-93-3	2-Butanone	5.7		ug/L	5.0	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01

015876

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	71-43-2	Benzene	16		ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	108-87-2	Methylcyclohexane	11		ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	108-10-1	4-Methyl-2-pentanone	5.0	U	ug/L	5.0	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	108-88-3	Toluene	18		ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	79-00-5	1,1,2-Trichloroethane	9.0	J	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	100-41-4	Ethylbenzene	16		ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	12:32:00	95-47-6	o-Xylene	32		ug/L	2.5	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	12:32:00	179601-23-1	m, p-Xylene	57		ug/L	2.5	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	100-42-5	Styrene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	98-82-8	Isopropylbenzene	7.2		ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/21/2015	20:42:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	87-61-6	1,2,3-Trichlorobenzene	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	106-46-7	1,4-Dichlorobenzene	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	120-82-1	1,2,4-Trichlorobenzene	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	106-93-4	1,2-Dibromoethane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	591-78-6	2-Hexanone	2.5	U	ug/L	2.5	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	79-00-5	1,1,2-Trichloroethane	0.25	U*	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	10061-01-5	cis-1,3-Dichloropropene	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	75-27-4	Bromodichloromethane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	78-87-5	1,2-Dichloropropane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	107-06-2	1,2-Dichloroethane	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	71-43-2	Benzene	15	*	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	56-23-5	Carbon tetrachloride	0.25	U	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/23/2015	10:52:00	67-66-3	Chloroform	0.39	UMJ	ug/L	0.25	12/14/2015	TF-34-01
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-71-8	Dichlorodifluoromethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	74-87-3	Chloromethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-01-4	Vinyl chloride	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	74-83-9	Bromomethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-00-3	Chloroethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-69-4	Trichlorofluoromethane	10	U	ug/L	10	12/14/2015	LOR-18

015877

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-35-4	1,1-Dichloroethene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	67-64-1	Acetone	100	U	ug/L	100	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-15-0	Carbon disulfide	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	79-20-9	Methyl acetate	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-09-2	Methylene chloride	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	156-60-5	trans-1,2-Dichloroethene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	1634-04-4	Methyl tert-butyl ether	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-34-3	1,1-Dichloroethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	156-59-2	cis-1,2-Dichloroethene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	78-93-3	2-Butanone	100	U	ug/L	100	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	74-97-5	Bromochloromethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	67-66-3	Chloroform	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	71-55-6	1,1,1-Trichloroethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	110-82-7	Cyclohexane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	56-23-5	Carbon tetrachloride	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	71-43-2	Benzene	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	107-06-2	1,2-Dichloroethane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	79-01-6	Trichloroethene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	108-87-2	Methylcyclohexane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	78-87-5	1,2-Dichloropropane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-27-4	Bromodichloromethane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	10061-01-5	cis-1,3-Dichloropropene	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	108-10-1	4-Methyl-2-pentanone	100	U	ug/L	100	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	108-88-3	Toluene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	10061-02-6	trans-1,3-Dichloropropene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	79-00-5	1,1,2-Trichloroethane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	127-18-4	Tetrachloroethene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	591-78-6	2-Hexanone	100	U*	ug/L	100	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	124-48-1	Dibromochloromethane	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	106-93-4	1,2-Dibromoethane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	108-90-7	Chlorobenzene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	100-41-4	Ethylbenzene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	95-47-6	o-Xylene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	179601-23-1	m, p-Xylene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	100-42-5	Styrene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	75-25-2	Bromoform	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	98-82-8	Isopropylbenzene	29		ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	79-34-5	1,1,2,2-Tetrachloroethane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	541-73-1	1,3-Dichlorobenzene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	106-46-7	1,4-Dichlorobenzene	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	95-50-1	1,2-Dichlorobenzene	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	96-12-8	1,2-Dibromo-3-chloropropane	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	120-82-1	1,2,4-Trichlorobenzene	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/21/2015	21:35:00	87-61-6	1,2,3-Trichlorobenzene	10	U*	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	71-43-2	Benzene	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	87-61-6	1,2,3-Trichlorobenzene	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	67-66-3	Chloroform	1.6	UMJ	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	107-06-2	1,2-Dichloroethane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	78-87-5	1,2-Dichloropropane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	75-27-4	Bromodichloromethane	1.0	U	ug/L	1.0	12/14/2015	LOR-18

015878

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	106-93-4	1,2-Dibromoethane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	96-12-8	1,2-Dibromo-3-chloropropane	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	120-82-1	1,2,4-Trichlorobenzene	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/23/2015	13:29:00	56-23-5	Carbon tetrachloride	1.0	U	ug/L	1.0	12/14/2015	LOR-18
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	67-64-1	Acetone	5.0	U	ug/L	5.0	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-09-2	Methylene chloride	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	108-10-1	4-Methyl-2-pentanone	5.0	U	ug/L	5.0	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	108-88-3	Toluene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	179601-23-1	m, p-Xylene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	100-42-5	Styrene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH

015879

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/21/2015	19:49:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	67-66-3	Chloroform	0.050	UJ	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	56-23-5	Carbon tetrachloride	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	71-43-2	Benzene	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	107-06-2	1,2-Dichloroethane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	78-87-5	1,2-Dichloropropane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	75-27-4	Bromodichloromethane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	10061-01-5	cis-1,3-Dichloropropene	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	79-00-5	1,1,2-Trichloroethane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	591-78-6	2-Hexanone	0.50	U	ug/L	0.50	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	106-93-4	1,2-Dibromoethane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	106-46-7	1,4-Dichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	120-82-1	1,2,4-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/23/2015	09:32:00	87-61-6	1,2,3-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	POND DISCH
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	67-64-1	Acetone	5.0	U	ug/L	5.0	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-09-2	Methylene chloride	0.21	LJ	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/14/2015	FD-04

015880

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	108-10-1	4-Methyl-2-pentanone	5.0	U	ug/L	5.0	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	108-88-3	Toluene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	179601-23-1	m, p-Xylene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	100-42-5	Styrene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/21/2015	20:15:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	67-66-3	Chloroform	0.050	UJ	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	56-23-5	Carbon tetrachloride	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	87-61-6	1,2,3-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	120-82-1	1,2,4-Trichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	106-46-7	1,4-Dichlorobenzene	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	106-93-4	1,2-Dibromoethane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	591-78-6	2-Hexanone	0.50	U	ug/L	0.50	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	79-00-5	1,1,2-Trichloroethane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	10061-01-5	cis-1,3-Dichloropropene	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	75-27-4	Bromodichloromethane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	78-87-5	1,2-Dichloropropane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	107-06-2	1,2-Dichloroethane	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/23/2015	09:59:00	71-43-2	Benzene	0.050	U	ug/L	0.050	12/14/2015	FD-04
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	67-64-1	Acetone	3.2	LJ	ug/L	5.0	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-09-2	Methylene chloride	0.50	U	ug/L	0.50	12/15/2015	TB-05

015881

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	108-10-1	4-Methyl-2-pentanone	5.0	U	ug/L	5.0	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	108-88-3	Toluene	0.14	LJ	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	179601-23-1	m, p-Xylene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	100-42-5	Styrene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39	QL16010-007	W	12/21/2015	15:50:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	67-66-3	Chloroform	0.050	UJ	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	87-61-6	1,2,3-Trichlorobenzene	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	106-46-7	1,4-Dichlorobenzene	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	106-93-4	1,2-Dibromoethane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	591-78-6	2-Hexanone	0.50	U	ug/L	0.50	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	79-00-5	1,1,2-Trichloroethane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	10061-01-5	cis-1,3-Dichloropropene	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	75-27-4	Bromodichloromethane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	78-87-5	1,2-Dichloropropane	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	107-06-2	1,2-Dichloroethane	0.050	U	ug/L	0.050	12/15/2015	TB-05

015882

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	71-43-2	Benzene	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	56-23-5	Carbon tetrachloride	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R39 (SIM)	QL16010-007	W	12/23/2015	10:25:00	120-82-1	1,2,4-Trichlorobenzene	0.050	U	ug/L	0.050	12/15/2015	TB-05
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	123-91-1	1,4-Dioxane	2.0	U*	ug/L	2.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	100-52-7	Benzaldehyde	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	108-95-2	Phenol	14	UM	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	111-44-4	Bis(2-Chloroethyl) ether	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	95-48-7	2-Methylphenol	49		ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	108-60-1	2,2'-Oxybis(1-chloropropane)	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	98-86-2	Acetophenone	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	106-44-5	4-Methylphenol	25		ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	621-64-7	N-Nitroso-di-n propylamine	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	67-72-1	Hexachloroethane	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	98-95-3	Nitrobenzene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	105-67-9	2,4-Dimethylphenol	28	UM	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	106-47-8	4-Chloroaniline	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	87-68-3	Hexachlorobutadiene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	105-60-2	Caprolactam	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	77-47-4	Hexachlorocyclo-pentadiene	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	88-06-2	2,4,6-Trichlorophenol	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	92-52-4	1,1'-Biphenyl	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	88-74-4	2-Nitroaniline	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	606-20-2	2,6-Dinitrotoluene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	99-09-2	3-Nitroaniline	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	51-28-5	2,4-Dinitrophenol	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	100-02-7	4-Nitrophenol	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	132-64-9	Dibenzofuran	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	121-14-2	2,4-Dinitrotoluene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	7005-72-3	4-Chlorophenyl-phenyl ether	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	100-01-6	4-Nitroaniline	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	534-52-1	4,6-Dinitro-2-methylphenol	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	118-74-1	Hexachlorobenzene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	1912-24-9	Atrazine	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	87-86-5	Pentachlorophenol	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	86-74-8	Carbazole	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	206-44-0	Fluoranthene	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	91-94-1	3,3'-Dichlorobenzidine	9.9	U*	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	117-84-0	Di-n-octylphthalate	9.9	U	ug/L	9.9	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29	QL16010-001	W	12/22/2015	17:12:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	91-20-3	Naphthalene	0.021	LJ	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	91-57-6	2-Methylnaphthalene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	208-96-8	Acenaphthylene	0.050	UJ	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	83-32-9	Acenaphthene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	86-73-7	Fluorene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	85-01-8	Phenanthrene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	120-12-7	Anthracene	0.053		ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	206-44-0	Fluoranthene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	129-00-0	Pyrene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	56-55-3	Benzo(a)anthracene	0.0044	LJ	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	218-01-9	Chrysene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	205-99-2	Benzo(b)fluoranthene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	207-08-9	Benzo(k)fluoranthene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	50-32-8	Benzo(a)pyrene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	53-70-3	Dibenzo(a,h)anthracene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	191-24-2	Benzo(g,h,i)perylene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	95-94-3	1,2,4,5-Tetrachlorobenzene	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	87-68-3	Hexachlorobutadiene	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	106-47-8	4-Chloroaniline	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	98-95-3	Nitrobenzene	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	67-72-1	Hexachloroethane	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH

015884

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	621-64-7	N-Nitrosodi-n-propylamine	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	108-60-1	2,2'-Oxybis(1-chloropropane)	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	111-44-4	bis(2-Chloroethyl)ether	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	123-91-1	1,4-Dioxane	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	51-28-5	2,4-Dinitrophenol	0.99	U	ug/L	0.99	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	91-94-1	3,3'-Dichlorobenzidine	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	1912-24-9	Atrazine	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	118-74-1	Hexachlorobenzene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	534-52-1	4,6-Dinitro-2-methylphenol	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	132-64-9	Dibenzofuran	0.044	LJ	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	121-14-2	2,4-Dinitrotoluene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	88-06-2	2,4,6-Trichlorophenol	0.099	U	ug/L	0.099	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	92-52-4	1,1'-Biphenyl	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R29 (SIM)	QL16010-001	W	12/31/2015	13:33:00	606-20-2	2,6-Dinitrotoluene	0.050	U	ug/L	0.050	12/14/2015	TF-34-DISCH
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	123-91-1	1,4-Dioxane	19	U*	ug/L	19	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	100-52-7	Benzaldehyde	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	108-95-2	Phenol	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	111-44-4	Bis(2-Chloroethyl) ether	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	95-57-8	2-Chlorophenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	95-48-7	2-Methylphenol	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	108-60-1	2,2'-Oxybis(1-chloropropane)	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	98-86-2	Acetophenone	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	106-44-5	4-Methylphenol	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	621-64-7	N-Nitroso-di-n propylamine	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	67-72-1	Hexachloroethane	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	98-95-3	Nitrobenzene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	78-59-1	Isophorone	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	88-75-5	2-Nitrophenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	105-67-9	2,4-Dimethylphenol	250		ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	111-91-1	Bis(2-chloroethoxy)methane	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	120-83-2	2,4-Dichlorophenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	91-20-3	Naphthalene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	106-47-8	4-Chloroaniline	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	87-68-3	Hexachlorobutadiene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	105-60-2	Caprolactam	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	59-50-7	4-Chloro-3-methylphenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	91-57-6	2-Methylnaphthalene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	77-47-4	Hexachlorocyclo-pentadiene	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	88-06-2	2,4,6-Trichlorophenol	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	95-95-4	2,4,5-Trichlorophenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	92-52-4	1,1'-Biphenyl	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	91-58-7	2-Chloronaphthalene	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	88-74-4	2-Nitroaniline	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	131-11-3	Dimethylphthalate	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	606-20-2	2,6-Dinitrotoluene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	208-96-8	Acenaphthylene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	99-09-2	3-Nitroaniline	95	U	ug/L	95	12/14/2015	AA-GW-01

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	83-32-9	Acenaphthene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	51-28-5	2,4-Dinitrophenol	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	100-02-7	4-Nitrophenol	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	132-64-9	Dibenzofuran	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	121-14-2	2,4-Dinitrotoluene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	84-66-2	Diethylphthalate	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	86-73-7	Fluorene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	7005-72-3	4-Chlorophenyl-phenyl ether	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	100-01-6	4-Nitroaniline	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	534-52-1	4,6-Dinitro-2-methylphenol	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	86-30-6	N-Nitrosodiphenylamine	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	95-94-3	1,2,4,5-Tetrachlorobenzene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	101-55-3	4-Bromophenyl-phenylether	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	118-74-1	Hexachlorobenzene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	1912-24-9	Atrazine	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	87-86-5	Pentachlorophenol	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	85-01-8	Phenanthrene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	120-12-7	Anthracene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	86-74-8	Carbazole	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	84-74-2	Di-n-butylphthalate	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	206-44-0	Fluoranthene	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	129-00-0	Pyrene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	85-68-7	Butylbenzylphthalate	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	91-94-1	3,3'-Dichlorobenzidine	95	U*	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	56-55-3	Benzo(a)anthracene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	218-01-9	Chrysene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	117-81-7	Bis(2-ethylhexyl)phthalate	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	117-84-0	Di-n-octylphthalate	95	U	ug/L	95	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	205-99-2	Benzo(b)fluoranthene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	207-08-9	Benzo(k)fluoranthene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	50-32-8	Benzo(a)pyrene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	193-39-5	Indeno(1,2,3-cd)pyrene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	53-70-3	Dibenzo(a,h)anthracene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	191-24-2	Benzo(g,h,i)perylene	48	U*	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30	QL16010-009	W	12/22/2015	18:37:00	58-90-2	2,3,4,6-Tetrachlorophenol	48	U	ug/L	48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	91-20-3	Naphthalene	1.1		ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	91-57-6	2-Methylnaphthalene	1.4		ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	208-96-8	Acenaphthylene	0.48	UJ	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	83-32-9	Acenaphthene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	86-73-7	Fluorene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	87-86-5	Pentachlorophenol	1.9	U	ug/L	1.9	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	85-01-8	Phenanthrene	0.59		ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	120-12-7	Anthracene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	206-44-0	Fluoranthene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	129-00-0	Pyrene	0.28	LJ	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	56-55-3	Benzo(a)anthracene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	218-01-9	Chrysene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01

015886

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	205-99-2	Benzo(b)fluoranthene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	207-08-9	Benzo(k)fluoranthene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	50-32-8	Benzo(a)pyrene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	53-70-3	Dibenzo(a,h)anthracene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	191-24-2	Benzo(g,h,i)perylene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	98-95-3	Nitrobenzene	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	67-72-1	Hexachloroethane	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	621-64-7	N-Nitrosodi-n-propylamine	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	108-60-1	2,2'-Oxybis(1-chloropropane)	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	111-44-4	bis(2-Chloroethyl)ether	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	123-91-1	1,4-Dioxane	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	51-28-5	2,4-Dinitrophenol	9.6	U	ug/L	9.6	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	91-94-1	3,3'-Dichlorobenzidine	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	1912-24-9	Atrazine	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	118-74-1	Hexachlorobenzene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	534-52-1	4,6-Dinitro-2-methylphenol	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	132-64-9	Dibenzofuran	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	121-14-2	2,4-Dinitrotoluene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	606-20-2	2,6-Dinitrotoluene	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	92-52-4	1,1'-Biphenyl	0.48	U	ug/L	0.48	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	88-06-2	2,4,6-Trichlorophenol	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	95-94-3	1,2,4,5-Tetrachlorobenzene	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	87-68-3	Hexachlorobutadiene	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R30 (SIM)	QL16010-009	W	12/31/2015	16:39:00	106-47-8	4-Chloroaniline	0.96	U	ug/L	0.96	12/14/2015	AA-GW-01
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	123-91-1	1,4-Dioxane	750	U*	ug/L	750	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	100-52-7	Benzaldehyde	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/23/2015	14:07:00	108-95-2	Phenol	270000		ug/L	190000	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	111-44-4	Bis(2-Chloroethyl) ether	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	95-57-8	2-Chlorophenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/23/2015	14:07:00	95-48-7	2-Methylphenol	1500000		ug/L	190000	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	108-60-1	2,2'-Oxybis(1-chloropropane)	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	98-86-2	Acetophenone	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/23/2015	14:07:00	106-44-5	4-Methylphenol	1200000	J	ug/L	190000	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	621-64-7	N-Nitroso-di-n propylamine	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	67-72-1	Hexachloroethane	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	98-95-3	Nitrobenzene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	78-59-1	Isophorone	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	88-75-5	2-Nitrophenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/23/2015	17:31:00	105-67-9	2,4-Dimethylphenol	1300000		ug/L	190000	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	111-91-1	Bis(2-chloroethoxy)methane	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	120-83-2	2,4-Dichlorophenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	91-20-3	Naphthalene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	106-47-8	4-Chloroaniline	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	87-68-3	Hexachlorobutadiene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	105-60-2	Caprolactam	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	59-50-7	4-Chloro-3-methylphenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	91-57-6	2-Methylnaphthalene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03

015887

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	77-47-4	Hexachlorocyclo-pentadiene	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	88-06-2	2,4,6-Trichlorophenol	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	95-95-4	2,4,5-Trichlorophenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	92-52-4	1,1'-Biphenyl	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	91-58-7	2-Chloronaphthalene	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	88-74-4	2-Nitroaniline	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	131-11-3	Dimethylphthalate	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	606-20-2	2,6-Dinitrotoluene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	208-96-8	Acenaphthylene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	99-09-2	3-Nitroaniline	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	83-32-9	Acenaphthene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	51-28-5	2,4-Dinitrophenol	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	100-02-7	4-Nitrophenol	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	132-64-9	Dibenzofuran	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	121-14-2	2,4-Dinitrotoluene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	84-66-2	Diethylphthalate	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	86-73-7	Fluorene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	7005-72-3	4-Chlorophenyl-phenyl ether	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	100-01-6	4-Nitroaniline	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	534-52-1	4,6-Dinitro-2-methylphenol	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	86-30-6	N-Nitrosodiphenylamine	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	101-55-3	4-Bromophenyl-phenylether	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	118-74-1	Hexachlorobenzene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	1912-24-9	Atrazine	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	87-86-5	Pentachlorophenol	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	85-01-8	Phenanthrene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	120-12-7	Anthracene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	86-74-8	Carbazole	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	84-74-2	Di-n-butylphthalate	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	206-44-0	Fluoranthene	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	129-00-0	Pyrene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	85-68-7	Butylbenzylphthalate	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	91-94-1	3,3'-Dichlorobenzidine	3800	U*	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	56-55-3	Benzo(a)anthracene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	218-01-9	Chrysene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	117-81-7	Bis(2-ethylhexyl)phthalate	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	117-84-0	Di-n-octylphthalate	3800	U	ug/L	3800	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	205-99-2	Benzo(b)fluoranthene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	207-08-9	Benzo(k)fluoranthene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	50-32-8	Benzo(a)pyrene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	53-70-3	Dibenzo(a,h)anthracene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	191-24-2	Benzo(g,h,i)perylene	1900	U*	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32	QL16010-002	W	12/22/2015	20:02:00	58-90-2	2,3,4,6-Tetrachlorophenol	1900	U	ug/L	1900	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	91-20-3	Naphthalene	19	U	ug/L	19	12/14/2015	AA-GW-03

015888

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	91-57-6	2-Methylnaphthalene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	208-96-8	Acenaphthylene	19	UJ	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	83-32-9	Acenaphthene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	86-73-7	Fluorene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	87-86-5	Pentachlorophenol	75	U	ug/L	75	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	85-01-8	Phenanthrene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	120-12-7	Anthracene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	206-44-0	Fluoranthene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	129-00-0	Pyrene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	56-55-3	Benzo(a)anthracene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	218-01-9	Chrysene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	205-99-2	Benzo(b)fluoranthene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	207-08-9	Benzo(k)fluoranthene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	50-32-8	Benzo(a)pyrene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	193-39-5	Indeno(1,2,3-cd)pyrene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	53-70-3	Dibenzo(a,h)anthracene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	191-24-2	Benzo(g,h,i)perylene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	121-14-2	2,4-Dinitrotoluene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	132-64-9	Dibenzofuran	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	534-52-1	4,6-Dinitro-2-methylphenol	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	118-74-1	Hexachlorobenzene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	1912-24-9	Atrazine	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	91-94-1	3,3'-Dichlorobenzidine	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	51-28-5	2,4-Dinitrophenol	380	U	ug/L	380	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	123-91-1	1,4-Dioxane	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	111-44-4	bis(2-Chloroethyl)ether	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	108-60-1	2,2'-Oxybis(1-chloropropane)	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	621-64-7	N-Nitrosodi-n-propylamine	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	67-72-1	Hexachloroethane	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	98-95-3	Nitrobenzene	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	106-47-8	4-Chloroaniline	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	87-68-3	Hexachlorobutadiene	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	95-94-3	1,2,4,5-Tetrachlorobenzene	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	88-06-2	2,4,6-Trichlorophenol	38	U	ug/L	38	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	92-52-4	1,1'-Biphenyl	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R32 (SIM)	QL16010-002	W	12/31/2015	13:59:00	606-20-2	2,6-Dinitrotoluene	19	U	ug/L	19	12/14/2015	AA-GW-03
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	123-91-1	1,4-Dioxane	40	U*	ug/L	40	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	100-52-7	Benzaldehyde	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	108-95-2	Phenol	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	111-44-4	Bis(2-Chloroethyl) ether	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	95-57-8	2-Chlorophenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	95-48-7	2-Methylphenol	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	98-86-2	Acetophenone	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	106-44-5	4-Methylphenol	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	621-64-7	N-Nitroso-di-n propylamine	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	67-72-1	Hexachloroethane	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	98-95-3	Nitrobenzene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	78-59-1	Isophorone	100	U	ug/L	100	12/14/2015	TF-34-01

015889

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	88-75-5	2-Nitrophenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	105-67-9	2,4-Dimethylphenol	970		ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	111-91-1	Bis(2-chloroethoxy)methane	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	120-83-2	2,4-Dichlorophenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	91-20-3	Naphthalene	32	*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	106-47-8	4-Chloroaniline	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	87-68-3	Hexachlorobutadiene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	105-60-2	Caprolactam	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	59-50-7	4-Chloro-3-methylphenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	91-57-6	2-Methylnaphthalene	36	*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	77-47-4	Hexachlorocyclo-pentadiene	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	88-06-2	2,4,6-Trichlorophenol	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	95-95-4	2,4,5-Trichlorophenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	92-52-4	1,1'-Biphenyl	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	91-58-7	2-Chloronaphthalene	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	88-74-4	2-Nitroaniline	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	131-11-3	Dimethylphthalate	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	606-20-2	2,6-Dinitrotoluene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	208-96-8	Acenaphthylene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	99-09-2	3-Nitroaniline	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	83-32-9	Acenaphthene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	51-28-5	2,4-Dinitrophenol	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	100-02-7	4-Nitrophenol	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	132-64-9	Dibenzofuran	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	121-14-2	2,4-Dinitrotoluene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	84-66-2	Diethylphthalate	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	86-73-7	Fluorene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	7005-72-3	4-Chlorophenyl-phenyl ether	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	100-01-6	4-Nitroaniline	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	534-52-1	4,6-Dinitro-2-methylphenol	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	86-30-6	N-Nitrosodiphenylamine	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	95-94-3	1,2,4,5-Tetrachlorobenzene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	101-55-3	4-Bromophenyl-phenylether	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	118-74-1	Hexachlorobenzene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	1912-24-9	Atrazine	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	87-86-5	Pentachlorophenol	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	85-01-8	Phenanthrene	12	*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	120-12-7	Anthracene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	86-74-8	Carbazole	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	84-74-2	Di-n-butylphthalate	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	206-44-0	Fluoranthene	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	129-00-0	Pyrene	9.1	*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	85-68-7	Butylbenzylphthalate	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	91-94-1	3,3'-Dichlorobenzidine	200	U*	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	56-55-3	Benzo(a)anthracene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	218-01-9	Chrysene	100	U*	ug/L	100	12/14/2015	TF-34-01

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	117-81-7	Bis(2-ethylhexyl)phthalate	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	117-84-0	Di-n-octylphthalate	200	U	ug/L	200	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	205-99-2	Benzo(b)fluoranthene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	207-08-9	Benzo(k)fluoranthene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	50-32-8	Benzo(a)pyrene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	193-39-5	Indeno(1,2,3-cd)pyrene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	53-70-3	Dibenzo(a,h)anthracene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	191-24-2	Benzo(g,h,i)perylene	100	U*	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33	QL16010-003	W	12/22/2015	19:05:00	58-90-2	2,3,4,6-Tetrachlorophenol	100	U	ug/L	100	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	91-20-3	Naphthalene	4.6		ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	91-57-6	2-Methylnaphthalene	3.0		ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	208-96-8	Acenaphthylene	0.98	UJ	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	83-32-9	Acenaphthene	0.65	LJ	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	86-73-7	Fluorene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	87-86-5	Pentachlorophenol	3.9	U	ug/L	3.9	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	85-01-8	Phenanthrene	3.0		ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	120-12-7	Anthracene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	206-44-0	Fluoranthene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	129-00-0	Pyrene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	56-55-3	Benzo(a)anthracene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	218-01-9	Chrysene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	205-99-2	Benzo(b)fluoranthene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	207-08-9	Benzo(k)fluoranthene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	50-32-8	Benzo(a)pyrene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	53-70-3	Dibenzo(a,h)anthracene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	191-24-2	Benzo(g,h,i)perylene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	111-44-4	bis(2-Chloroethyl)ether	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	621-64-7	N-Nitrosodi-n-propylamine	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	67-72-1	Hexachloroethane	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	98-95-3	Nitrobenzene	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	106-47-8	4-Chloroaniline	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	87-68-3	Hexachlorobutadiene	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	88-06-2	2,4,6-Trichlorophenol	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	92-52-4	1,1'-Biphenyl	0.59	LJ	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	606-20-2	2,6-Dinitrotoluene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	108-60-1	2,2'-Oxybis(1-chloropropane)	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	91-94-1	3,3'-Dichlorobenzidine	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	1912-24-9	Atrazine	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	118-74-1	Hexachlorobenzene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	ug/L	2.0	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	132-64-9	Dibenzofuran	1.3		ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R33 (SIM)	QL16010-003	W	12/31/2015	14:26:00	121-14-2	2,4-Dinitrotoluene	0.98	U	ug/L	0.98	12/14/2015	TF-34-01
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	123-91-1	1,4-Dioxane	38	U*	ug/L	38	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	100-52-7	Benzaldehyde	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	108-95-2	Phenol	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	111-44-4	Bis(2-Chloroethyl) ether	190	U*	ug/L	190	12/14/2015	LOR-18

015891

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	95-57-8	2-Chlorophenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	95-48-7	2-Methylphenol	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	98-86-2	Acetophenone	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	106-44-5	4-Methylphenol	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	621-64-7	N-Nitroso-di-n propylamine	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	67-72-1	Hexachloroethane	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	98-95-3	Nitrobenzene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	78-59-1	Isophorone	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	88-75-5	2-Nitrophenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	105-67-9	2,4-Dimethylphenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	111-91-1	Bis(2-chloroethoxy)methane	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	120-83-2	2,4-Dichlorophenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	91-20-3	Naphthalene	26	*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	106-47-8	4-Chloroaniline	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	87-68-3	Hexachlorobutadiene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	105-60-2	Caprolactam	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	59-50-7	4-Chloro-3-methylphenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	91-57-6	2-Methylnaphthalene	91	*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	77-47-4	Hexachlorocyclo-pentadiene	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	88-06-2	2,4,6-Trichlorophenol	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	95-95-4	2,4,5-Trichlorophenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	92-52-4	1,1'-Biphenyl	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	91-58-7	2-Chloronaphthalene	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	88-74-4	2-Nitroaniline	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	131-11-3	Dimethylphthalate	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	606-20-2	2,6-Dinitrotoluene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	208-96-8	Acenaphthylene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	99-09-2	3-Nitroaniline	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	83-32-9	Acenaphthene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	51-28-5	2,4-Dinitrophenol	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	100-02-7	4-Nitrophenol	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	132-64-9	Dibenzofuran	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	121-14-2	2,4-Dinitrotoluene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	84-66-2	Diethylphthalate	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	86-73-7	Fluorene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	7005-72-3	4-Chlorophenyl-phenyl ether	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	100-01-6	4-Nitroaniline	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	534-52-1	4,6-Dinitro-2-methylphenol	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	86-30-6	N-Nitrosodiphenylamine	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	101-55-3	4-Bromophenyl-phenylether	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	118-74-1	Hexachlorobenzene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	1912-24-9	Atrazine	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	87-86-5	Pentachlorophenol	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	85-01-8	Phenanthrene	26	*	ug/L	95	12/14/2015	LOR-18

015892

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	120-12-7	Anthracene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	86-74-8	Carbazole	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	84-74-2	Di-n-butylphthalate	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	206-44-0	Fluoranthene	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	129-00-0	Pyrene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	85-68-7	Butylbenzylphthalate	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	91-94-1	3,3'-Dichlorobenzidine	190	U*	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	56-55-3	Benzo(a)anthracene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	218-01-9	Chrysene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	117-81-7	Bis(2-ethylhexyl)phthalate	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	117-84-0	Di-n-octylphthalate	190	U	ug/L	190	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	205-99-2	Benzo(b)fluoranthene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	207-08-9	Benzo(k)fluoranthene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	50-32-8	Benzo(a)pyrene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	53-70-3	Dibenzo(a,h)anthracene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	191-24-2	Benzo(g,h,i)perylene	95	U*	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34	QL16010-004	W	12/22/2015	19:34:00	58-90-2	2,3,4,6-Tetrachlorophenol	95	U	ug/L	95	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	91-20-3	Naphthalene	16		ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	91-57-6	2-Methylnaphthalene	35		ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	208-96-8	Acenaphthylene	0.97	UJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	83-32-9	Acenaphthene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	86-73-7	Fluorene	3.8		ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	87-86-5	Pentachlorophenol	3.9	U	ug/L	3.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	85-01-8	Phenanthrene	4.0		ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	120-12-7	Anthracene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	206-44-0	Fluoranthene	0.40	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	129-00-0	Pyrene	0.62	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	56-55-3	Benzo(a)anthracene	0.17	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	218-01-9	Chrysene	0.65	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	205-99-2	Benzo(b)fluoranthene	0.16	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	207-08-9	Benzo(k)fluoranthene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	50-32-8	Benzo(a)pyrene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.11	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	53-70-3	Dibenzo(a,h)anthracene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	191-24-2	Benzo(g,h,i)perylene	0.17	LJ	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	106-47-8	4-Chloroaniline	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	87-68-3	Hexachlorobutadiene	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	95-94-3	1,2,4,5-Tetrachlorobenzene	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	88-06-2	2,4,6-Trichlorophenol	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	92-52-4	1,1'-Biphenyl	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	606-20-2	2,6-Dinitrotoluene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	121-14-2	2,4-Dinitrotoluene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	132-64-9	Dibenzofuran	1.7		ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	534-52-1	4,6-Dinitro-2-methylphenol	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	118-74-1	Hexachlorobenzene	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	1912-24-9	Atrazine	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	91-94-1	3,3'-Dichlorobenzidine	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	51-28-5	2,4-Dinitrophenol	19	U	ug/L	19	12/14/2015	LOR-18

015893

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	123-91-1	1,4-Dioxane	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	111-44-4	bis(2-Chloroethyl)ether	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	108-60-1	2,2'-Oxybis(1-chloropropane)	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	621-64-7	N-Nitrosodi-n-propylamine	0.97	U	ug/L	0.97	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	67-72-1	Hexachloroethane	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R34 (SIM)	QL16010-004	W	12/31/2015	15:19:00	98-95-3	Nitrobenzene	1.9	U	ug/L	1.9	12/14/2015	LOR-18
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	123-91-1	1,4-Dioxane	1.9	U*	ug/L	1.9	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	100-52-7	Benzaldehyde	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	108-95-2	Phenol	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	111-44-4	Bis(2-Chloroethyl) ether	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	95-57-8	2-Chlorophenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	95-48-7	2-Methylphenol	23	UM	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	98-86-2	Acetophenone	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	106-44-5	4-Methylphenol	12	UM	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	621-64-7	N-Nitroso-di-n propylamine	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	67-72-1	Hexachloroethane	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	98-95-3	Nitrobenzene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	78-59-1	Isophorone	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	88-75-5	2-Nitrophenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	105-67-9	2,4-Dimethylphenol	14	UM	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	111-91-1	Bis(2-chloroethoxy)methane	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	120-83-2	2,4-Dichlorophenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	91-20-3	Naphthalene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	106-47-8	4-Chloroaniline	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	87-68-3	Hexachlorobutadiene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	105-60-2	Caprolactam	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	59-50-7	4-Chloro-3-methylphenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	91-57-6	2-Methylnaphthalene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	77-47-4	Hexachlorocyclo-pentadiene	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	88-06-2	2,4,6-Trichlorophenol	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	95-95-4	2,4,5-Trichlorophenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	92-52-4	1,1'-Biphenyl	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	91-58-7	2-Chloronaphthalene	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	88-74-4	2-Nitroaniline	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	131-11-3	Dimethylphthalate	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	606-20-2	2,6-Dinitrotoluene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	208-96-8	Acenaphthylene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	99-09-2	3-Nitroaniline	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	83-32-9	Acenaphthene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	51-28-5	2,4-Dinitrophenol	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	100-02-7	4-Nitrophenol	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	132-64-9	Dibenzofuran	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	121-14-2	2,4-Dinitrotoluene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	84-66-2	Diethylphthalate	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	86-73-7	Fluorene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH

015894

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	100-01-6	4-Nitroaniline	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	534-52-1	4,6-Dinitro-2-methylphenol	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	86-30-6	N-Nitrosodiphenylamine	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	101-55-3	4-Bromophenyl-phenylether	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	118-74-1	Hexachlorobenzene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	1912-24-9	Atrazine	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	87-86-5	Pentachlorophenol	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	85-01-8	Phenanthrene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	120-12-7	Anthracene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	86-74-8	Carbazole	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	84-74-2	Di-n-butylphthalate	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	206-44-0	Fluoranthene	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	129-00-0	Pyrene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	85-68-7	Butylbenzylphthalate	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	91-94-1	3,3'-Dichlorobenzidine	9.5	U*	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	56-55-3	Benzo(a)anthracene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	218-01-9	Chrysene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	117-84-0	Di-n-octylphthalate	9.5	U	ug/L	9.5	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	205-99-2	Benzo(b)fluoranthene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	207-08-9	Benzo(k)fluoranthene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	50-32-8	Benzo(a)pyrene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	53-70-3	Dibenzo(a,h)anthracene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	191-24-2	Benzo(g,h,i)perylene	4.8	U*	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35	QL16010-005	W	12/22/2015	17:40:00	58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U	ug/L	4.8	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	91-20-3	Naphthalene	0.015	LJ	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	91-57-6	2-Methylnaphthalene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	208-96-8	Acenaphthylene	0.049	UJ	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	83-32-9	Acenaphthene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	86-73-7	Fluorene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	87-86-5	Pentachlorophenol	0.19	U	ug/L	0.19	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	85-01-8	Phenanthrene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	120-12-7	Anthracene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	206-44-0	Fluoranthene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	129-00-0	Pyrene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	56-55-3	Benzo(a)anthracene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	218-01-9	Chrysene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	205-99-2	Benzo(b)fluoranthene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	207-08-9	Benzo(k)fluoranthene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	50-32-8	Benzo(a)pyrene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	53-70-3	Dibenzo(a,h)anthracene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	191-24-2	Benzo(g,h,i)perylene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	87-68-3	Hexachlorobutadiene	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	106-47-8	4-Chloroaniline	0.097	U	ug/L	0.097	12/14/2015	POND DISCH

015895

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	98-95-3	Nitrobenzene	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	67-72-1	Hexachloroethane	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	621-64-7	N-Nitrosodi-n-propylamine	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	108-60-1	2,2'-Oxybis(1-chloropropane)	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	111-44-4	bis(2-Chloroethyl)ether	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	123-91-1	1,4-Dioxane	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	91-94-1	3,3'-Dichlorobenzidine	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	51-28-5	2,4-Dinitrophenol	0.97	U	ug/L	0.97	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	1912-24-9	Atrazine	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	118-74-1	Hexachlorobenzene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	534-52-1	4,6-Dinitro-2-methylphenol	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	132-64-9	Dibenzofuran	0.028	LJ	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	121-14-2	2,4-Dinitrotoluene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	606-20-2	2,6-Dinitrotoluene	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	92-52-4	1,1'-Biphenyl	0.049	U	ug/L	0.049	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	88-06-2	2,4,6-Trichlorophenol	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R35 (SIM)	QL16010-005	W	12/31/2015	15:46:00	95-94-3	1,2,4,5-Tetrachlorobenzene	0.097	U	ug/L	0.097	12/14/2015	POND DISCH
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	123-91-1	1,4-Dioxane	1.9	U*	ug/L	1.9	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	100-52-7	Benzaldehyde	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	108-95-2	Phenol	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	111-44-4	Bis(2-Chloroethyl) ether	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	95-57-8	2-Chlorophenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	95-48-7	2-Methylphenol	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	98-86-2	Acetophenone	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	106-44-5	4-Methylphenol	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	621-64-7	N-Nitroso-di-n propylamine	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	67-72-1	Hexachloroethane	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	98-95-3	Nitrobenzene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	78-59-1	Isophorone	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	88-75-5	2-Nitrophenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	105-67-9	2,4-Dimethylphenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	111-91-1	Bis(2-chloroethoxy)methane	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	120-83-2	2,4-Dichlorophenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	91-20-3	Naphthalene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	106-47-8	4-Chloroaniline	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	87-68-3	Hexachlorobutadiene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	105-60-2	Caprolactam	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	59-50-7	4-Chloro-3-methylphenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	91-57-6	2-Methylnaphthalene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	77-47-4	Hexachlorocyclo-pentadiene	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	88-06-2	2,4,6-Trichlorophenol	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	95-95-4	2,4,5-Trichlorophenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	92-52-4	1,1'-Biphenyl	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	91-58-7	2-Chloronaphthalene	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	88-74-4	2-Nitroaniline	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	131-11-3	Dimethylphthalate	4.8	U	ug/L	4.8	12/14/2015	FD-04

015896

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	606-20-2	2,6-Dinitrotoluene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	208-96-8	Acenaphthylene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	99-09-2	3-Nitroaniline	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	83-32-9	Acenaphthene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	51-28-5	2,4-Dinitrophenol	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	100-02-7	4-Nitrophenol	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	132-64-9	Dibenzofuran	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	121-14-2	2,4-Dinitrotoluene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	84-66-2	Diethylphthalate	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	86-73-7	Fluorene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	100-01-6	4-Nitroaniline	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	534-52-1	4,6-Dinitro-2-methylphenol	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	86-30-6	N-Nitrosodiphenylamine	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	101-55-3	4-Bromophenyl-phenylether	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	118-74-1	Hexachlorobenzene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	1912-24-9	Atrazine	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	87-86-5	Pentachlorophenol	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	85-01-8	Phenanthrene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	120-12-7	Anthracene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	86-74-8	Carbazole	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	84-74-2	Di-n-butylphthalate	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	206-44-0	Fluoranthene	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	129-00-0	Pyrene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	85-68-7	Butylbenzylphthalate	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	91-94-1	3,3'-Dichlorobenzidine	9.5	U*	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	56-55-3	Benzo(a)anthracene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	218-01-9	Chrysene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	117-84-0	Di-n-octylphthalate	9.5	U	ug/L	9.5	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	205-99-2	Benzo(b)fluoranthene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	207-08-9	Benzo(k)fluoranthene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	50-32-8	Benzo(a)pyrene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	53-70-3	Dibenzo(a,h)anthracene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	191-24-2	Benzo(g,h,i)perylene	4.8	U*	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36	QL16010-006	W	12/22/2015	18:08:00	58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U	ug/L	4.8	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	91-20-3	Naphthalene	0.0095	LJ	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	91-57-6	2-Methylnaphthalene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	208-96-8	Acenaphthylene	0.049	UJ	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	83-32-9	Acenaphthene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	86-73-7	Fluorene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	87-86-5	Pentachlorophenol	0.19	U	ug/L	0.19	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	85-01-8	Phenanthrene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	120-12-7	Anthracene	0.049	U	ug/L	0.049	12/14/2015	FD-04

015897

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	206-44-0	Fluoranthene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	129-00-0	Pyrene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	56-55-3	Benzo(a)anthracene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	218-01-9	Chrysene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	205-99-2	Benzo(b)fluoranthene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	207-08-9	Benzo(k)fluoranthene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	50-32-8	Benzo(a)pyrene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	53-70-3	Dibenzo(a,h)anthracene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	191-24-2	Benzo(g,h,i)perylene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	123-91-1	1,4-Dioxane	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	51-28-5	2,4-Dinitrophenol	0.97	U	ug/L	0.97	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	91-94-1	3,3'-Dichlorobenzidine	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	1912-24-9	Atrazine	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	118-74-1	Hexachlorobenzene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	534-52-1	4,6-Dinitro-2-methylphenol	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	132-64-9	Dibenzofuran	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	121-14-2	2,4-Dinitrotoluene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	606-20-2	2,6-Dinitrotoluene	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	92-52-4	1,1'-Biphenyl	0.049	U	ug/L	0.049	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	88-06-2	2,4,6-Trichlorophenol	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	87-68-3	Hexachlorobutadiene	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	106-47-8	4-Chloroaniline	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	98-95-3	Nitrobenzene	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	67-72-1	Hexachloroethane	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	111-44-4	bis(2-Chloroethyl)ether	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	0.097	U	ug/L	0.097	12/14/2015	FD-04
45671	F6R29	F6R36 (SIM)	QL16010-006	W	12/31/2015	16:13:00	621-64-7	N-Nitrosodi-n-propylamine	0.049	U	ug/L	0.049	12/14/2015	FD-04

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. F6R29 SDG Nos. To Follow Mod. Ref No. 2544.1 & 2545.1 Date Rec 01/07/16

EPA Lab ID: EQI

Lab Location: West Columbia, SC

Region: 6 Audit No.: 45671/F6R29

Re_Submitted CSF? Yes X No

Box No(s): 1

COMMENTS:

Item	Description
3.	The auditor added some missing page numbers.
4.	The TVOA-SIM data were not listed (pages 368 to 641) on Form DC-2-7. The auditor made proper entries.
14. /15.	Sample tags were not used for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?		X	
4. Are enclosed documents listed?		X	
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Wallace Doong / ESAT Data Reviewer Date 01/18/16

Audited by: Date

Signature Printed Name/Title

DC-2__

015899

In Reference To: O-1320
Case No.: 45671 SDG(s): F6R29

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	EQI
Lab Contact:	Robert Zhu
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Wallace Doong - ESAT

In reference to data for the fraction(s):

TVOA/TVOA-SIM SVOA-SIM

Summary of Questions/Issues:

TVOA and TVOA-SIM

Sample F6R33: The 1,1,2-trichloroethane was reported at 9.0 ug/L in the undiluted TVOA analysis, but was not detected in the TVOA diluted analysis F6R33DL and TVOA-SIM analysis F6R33. Please review the data and make the appropriate resubmission.

SVOA-SIM

For Form 8A (pages 1162 and 1163), the IS3 should be phenanthrene-d10 and results for IS6 (1,4-dichlorobenzene-d4) were omitted for all samples. Please correct and resubmit these pages with proper pagination.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM02.3, p. B-11, sec. 2.2.2). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 5 business days** (SOM02.3, p. B-11, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015900

F6R29

USEPA CLP COC (LAB COPY)

DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220226

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14035

No: 6-121515-120716-0021

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	F6R29	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1210 (HCl 4 C), 1211 (HCl 4 C), 1212 (HCl 4 C), 1213 (HCl 4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0033	F6R32	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1247 (HCl 4 C), 1248 (HCl 4 C) (2) *	AA-GW-03	12/14/2015 11:45	
277-0034	F6R33	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1255 (HCl 4 C), 1256 (HCl 4 C), 1257 (HCl 4 C), 1258 (HCl 4 C) (4)	TF-34-01	12/14/2015 13:00	
277-0035	F6R34	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1265 (HCl 4 C), 1266 (HCl 4 C), 1267 (HCl 4 C), 1268 (HCl 4 C) (4)	LOR-18	12/14/2015 12:00	
277-0036	F6R35	Surface Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1275 (HCl 4 C), 1276 (HCl 4 C), 1277 (HCl 4 C), 1278 (HCl 4 C) (4)	POND DISCH	12/14/2015 14:00	
277-0037	F6R36	Surface Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1285 (HCl 4 C), 1286 (HCl 4 C), 1287 (HCl 4 C), 1288 (HCl 4 C) (4)	FD-04	12/14/2015 14:00	
277-0042	F6R39	Blank/ SERAS		TVOAw/TVOASIM(21)	1299 (HCl 4 C), 1300 (HCl 4 C), 1305 (HCl 4 C), 1306 (HCl 4 C) (4)	TB-05	12/15/2015 11:30	

Page 34 of 39

Special Instructions: * INSUFFICIENT WELL VOLUME AVAILABLE

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TVOAw/TVOASIM=TVOA by SOM02.3 /TVOASIM by SOM02.3 and MA#2545.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis	LM SERAS	12/15/15 12:00			
				12/16/15 1106	OK

SDG F6R29 Filed/Sample

T=4.0

9

F6R29

USEPA CLP COC (LAB COPY)

DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220237

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: CRW14035

No: 6-121515-105613-0017

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	F6R29	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1214 (4 C), 1215 (4 C), 1216 (4 C), 1217 (4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0036	F6R35	Surface Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1279 (4 C), 1280 (4 C), 1281 (4 C), 1282 (4 C) (4)	POND DISCH	12/14/2015 14:00	
277-0037	F6R36	Surface Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1289 (4 C), 1290 (4 C), 1291 (4 C), 1292 (4 C) (4)	FD-04	12/14/2015 14:00	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOAw/SVOASIM=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LM SERAS	12/15/15 10:20			
				12/16/15 1106	ok

T=7.0

Page 35 of 39

F6R29

USEPA CLP COC (LAB COPY)

DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220190

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: 1EPW14035

No: 6-121515-115941-0020

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0031	F6R30	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1227 (4 C), 1228 (4 C), 1229 (4 C) (3)	AA-GW-01	12/14/2015 11:00	
277-0033	F6R32	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1249 (4 C), 1250 (4 C) (2)	AA-GW-03	12/14/2015 11:45	
277-0034	F6R33	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1259 (4 C), 1260 (4 C), 1261 (4 C) (3)	TF-34-01	12/14/2015 13:00	
277-0035	F6R34	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1269 (4 C), 1270 (4 C), 1271 (4 C), 1272 (4 C) (4)	LOR-18	12/14/2015 12:00	

Page 36 of 39

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SVOAw/SVOASIM=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/ANALYSIS	LM SERAS	12/15/15 12:00			
				12/16/15 1106	OK

T=2.6

Date: 11/09/2015	MA: 2545.1	Title: Trace Volatiles SIM Analysis
Method Source: SOM02.3	Method: Trace Volatiles by SIM	
Matrix: Water		

Summary of Modification

The purpose of this modified analysis is to require the Laboratory to analyze samples by the full scan method for the complete target analyte list at the CRQLs in Exhibit C, Section 1.0. The Laboratory shall proceed to Selected Ion Monitoring (SIM) analysis for any sample in which any of the target analytes in Section I is either undetected or detected at concentrations below the sample adjusted CRQL (laboratory qualifier is reported with a U or J flag) in the full scan analyses. The Laboratory shall achieve the CRQLs for the Trace Volatiles SIM target analytes specified in Section I. Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications — Not applicable

Analyte	CAS Number	Water CRQL (ug/L)
1,1,2,2-Tetrachloroethane	79-34-5	0.050
1,1,2-Trichloroethane	79-00-5	0.050
1,2,3-Trichlorobenzene	87-61-6	0.050
1,2,4-Trichlorobenzene	120-82-1	0.050
1,2-Dibromo-3-chloropropane	96-12-8	0.050
1,2-Dibromoethane	106-93-4	0.050
1,2-Dichloroethane	107-06-2	0.050
1,2-Dichloropropane	78-87-5	0.050
1,4-Dichlorobenzene	106-46-7	0.050
2-Hexanone	591-78-6	0.50
Benzene	71-43-2	0.050
Bromodichloromethane	75-27-4	0.050
Carbon tetrachloride	56-23-5	0.050
Chloroform	67-66-3	0.050
cis-1,3-Dichloropropene	10061-01-5	0.050

015904

Date: 11/09/2015	MA: 2544.1	Title: SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	**Method:** Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications Not applicable

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

015905

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

015906

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 12, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: MF6R00

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 5, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1602-212-0008
TDF No.:	6-16-110A
ESAT File No.:	I-0677

Attached is the data review summary for Case # 45671
SDG # MF6R00
Site Wilcox Oil

015908

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY BON	NO. OF SAMPLES 5
CONTRACT# EP-W-14-029	MATRIX Soil
SDG# MF6R00	REVIEWER (IF NOT ESB) ESAT
SOW# ISM02.3/MA 2542.1	REVIEWER'S NAME Sonya Meekins
SF# 303DD2GG	COMPLETION DATE January 5, 2016

SAMPLE NO.					
	MF6R00	MF6R04			
	MF6R01				
	MF6R02				
	MF6R03				

	ICP-AES	ICP-MS	HG	CN
1. HOLDING TIMES	O	O	O	O
2. CALIBRATIONS	O	O	O	O
3. BLANKS	O	O	O	O
4. MATRIX SPIKES	O	O	O	O
5. DUPLICATE ANALYSIS	O	O	O	O
6. ICP QC	O	M	N/A	N/A
7. LCS	O	O	N/A	N/A
8. SAMPLE VERIFICATION	O	O	O	O
9. OTHER QC	N/A	N/A	N/A	N/A
10. OVERALL ASSESSMENT	O	M	O	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: The laboratory analyzed the thallium LCS at 10X the MA 2542.1 CRQL instead of 2X.

AREAS OF CONCERN: ICP-MS Cobalt, copper, and nickel had serial dilution differences that exceeded the expanded QC limit for soil samples.

015909

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** MF6R00 **SITE** Wilcox Oil **LAB** BON

COMMENTS: This SDG consisted of five soil samples for total metals (by ICP-AES and ICP-MS), mercury, and cyanide analyses following SOW ISM02.3. The samples were also subject to Modified Analysis Request 2542.1 (MA 2542.1), which requested a lower CRQL for thallium. The sampler designated sample MF6R00 for QC analyses.

The SOW requires that the soil sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW and MA 2542.1. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

S4VEM Review was performed for this data package as requested by the Region. The target analytes of concern with the desired CRQLs in parentheses are antimony (1.0 mg/kg), arsenic (0.5 mg/kg), cadmium (0.5 mg/kg), chromium (1.0 mg/kg), cobalt (0.5 mg/kg), selenium (2.5 mg/kg), and thallium (0.25 mg/kg). The analytes of concern detected above the SQLs are arsenic, chromium, and cobalt in all samples.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with a matrix spike recovery and serial dilution differences. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for a few CSF issues (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

015910

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

015911

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

015912

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

015913

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-38-2	Arsenic	9.0		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-39-3	Barium	43.5		mg/kg	5.8	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-41-7	Beryllium	1.0		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-47-3	Chromium	26.4		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-48-4	Cobalt	23.2	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-50-8	Copper	16.7	J	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7439-92-1	Lead	10.2		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7439-96-5	Manganese	2370		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-02-0	Nickel	20.1	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7782-49-2	Selenium	0.34	LJ	mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	17:34:44	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-62-2	Vanadium	35.7		mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/21/2015	13:25:34	7440-66-6	Zinc	5.2		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.7	1	500	MS	P-04-01
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-38-2	Arsenic	2.6		mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-39-3	Barium	40.5		mg/kg	5.9	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-41-7	Beryllium	0.59	U	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-43-9	Cadmium	0.59	U	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-47-3	Chromium	7.1		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-48-4	Cobalt	2.2	J	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-50-8	Copper	5.0	J	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7439-92-1	Lead	3.4		mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7439-96-5	Manganese	82.6		mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-02-0	Nickel	3.3	J	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	17:49:16	7440-22-4	Silver	0.59	U	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-62-2	Vanadium	15.4		mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/21/2015	13:41:35	7440-66-6	Zinc	5.2		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.4	1	500	MS	LOR-06
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-38-2	Arsenic	2.7		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-39-3	Barium	53.8		mg/kg	5.8	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-47-3	Chromium	8.9		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-48-4	Cobalt	4.6	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-50-8	Copper	4.1	J	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7439-92-1	Lead	3.8		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7439-96-5	Manganese	168		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-02-0	Nickel	5.9	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	17:52:54	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-62-2	Vanadium	14.8		mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/21/2015	13:45:31	7440-66-6	Zinc	10.2		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		86.3	1	500	MS	LOR-12
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-36-0	Antimony	1.1	U	mg/kg	1.1	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-38-2	Arsenic	1.7		mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-39-3	Barium	31.1		mg/kg	5.7	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-41-7	Beryllium	0.57	U	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-43-9	Cadmium	0.57	U	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-47-3	Chromium	7.2		mg/kg	1.1	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-48-4	Cobalt	2.5	J	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-50-8	Copper	3.7	J	mg/kg	1.1	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7439-92-1	Lead	2.1		mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7439-96-5	Manganese	82.3		mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-02-0	Nickel	5.3	J	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	17:56:32	7440-22-4	Silver	0.57	U	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-62-2	Vanadium	11.8		mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/21/2015	13:49:31	7440-66-6	Zinc	7.4		mg/kg	1.1	12/03/2015	12/14/2015	12/04/2015		87.4	1	500	MS	LOR-09
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-38-2	Arsenic	1.6		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-39-3	Barium	32.0		mg/kg	5.8	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-47-3	Chromium	6.0		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015		85.6	1	500	MS	FD-01

015914

45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-48-4	Cobalt	1.9	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-50-8	Copper	3.0	J	mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7439-92-1	Lead	1.7		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7439-96-5	Manganese	47.8		mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-02-0	Nickel	4.2	J	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	18:00:10	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-62-2	Vanadium	9.7		mg/kg	2.9	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/21/2015	13:53:15	7440-66-6	Zinc	6.6		mg/kg	1.2	12/03/2015	12/14/2015	12/04/2015	85.6	1	500	MS	FD-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7429-90-5	Aluminum	13900		mg/kg	23.1	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7440-70-2	Calcium	577	U	mg/kg	577	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7439-89-6	Iron	27300		mg/kg	11.5	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7439-95-4	Magnesium	886		mg/kg	577	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7440-09-7	Potassium	1470		mg/kg	577	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/16/2015	11:35:16	7440-23-5	Sodium	577	U	mg/kg	577	12/03/2015	12/14/2015	12/04/2015	86.7	1	100	P	P-04-01
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7429-90-5	Aluminum	15300		mg/kg	23.4	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7440-70-2	Calcium	598		mg/kg	585	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7439-89-6	Iron	12600		mg/kg	11.7	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7439-95-4	Magnesium	1080		mg/kg	585	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7440-09-7	Potassium	1770		mg/kg	585	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/16/2015	11:52:48	7440-23-5	Sodium	585	U	mg/kg	585	12/03/2015	12/14/2015	12/04/2015	85.4	1	100	P	LOR-06
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7429-90-5	Aluminum	13500		mg/kg	23.2	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7440-70-2	Calcium	579	U	mg/kg	579	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7439-89-6	Iron	13500		mg/kg	11.6	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7439-95-4	Magnesium	1600		mg/kg	579	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7440-09-7	Potassium	1760		mg/kg	579	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/16/2015	11:57:13	7440-23-5	Sodium	579	U	mg/kg	579	12/03/2015	12/14/2015	12/04/2015	86.3	1	100	P	LOR-12
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7429-90-5	Aluminum	11000		mg/kg	22.9	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7440-70-2	Calcium	596		mg/kg	572	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7439-89-6	Iron	12000		mg/kg	11.4	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7439-95-4	Magnesium	1440		mg/kg	572	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7440-09-7	Potassium	1810		mg/kg	572	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/16/2015	12:01:39	7440-23-5	Sodium	572	U	mg/kg	572	12/03/2015	12/14/2015	12/04/2015	87.4	1	100	P	LOR-09
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7429-90-5	Aluminum	7940		mg/kg	23.4	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7440-70-2	Calcium	584	U	mg/kg	584	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7439-89-6	Iron	7610		mg/kg	11.7	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7439-95-4	Magnesium	916		mg/kg	584	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7440-09-7	Potassium	1160		mg/kg	584	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/16/2015	12:06:05	7440-23-5	Sodium	584	U	mg/kg	584	12/03/2015	12/14/2015	12/04/2015	85.6	1	100	P	FD-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/10/2015	16:42:21	7439-97-6	Mercury	0.0066	LJ	mg/kg	0.12	12/03/2015	12/10/2015	12/04/2015	86.7	0.5	100	CV	P-04-01
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/10/2015	16:44:53	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/03/2015	12/10/2015	12/04/2015	85.4	0.5	100	CV	LOR-06
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/10/2015	16:47:25	7439-97-6	Mercury	0.0071	LJ	mg/kg	0.12	12/03/2015	12/10/2015	12/04/2015	86.3	0.5	100	CV	LOR-12
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/10/2015	16:49:58	7439-97-6	Mercury	0.11	U	mg/kg	0.11	12/03/2015	12/10/2015	12/04/2015	87.4	0.5	100	CV	LOR-09
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/10/2015	16:52:29	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/03/2015	12/10/2015	12/04/2015	85.6	0.5	100	CV	FD-01
45671	MF6R00	MF6R00	5120091-01	S	Field_Sample	12/14/2015	15:02:57	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	86.7	1	50	AS	P-04-01
45671	MF6R00	MF6R01	5120091-02	S	Field_Sample	12/14/2015	15:05:27	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/03/2015	12/14/2015	12/04/2015	85.4	1	50	AS	LOR-06
45671	MF6R00	MF6R02	5120091-03	S	Field_Sample	12/14/2015	15:06:17	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	86.3	1	50	AS	LOR-12
45671	MF6R00	MF6R03	5120091-04	S	Field_Sample	12/14/2015	15:07:07	57-12-5	Cyanide	0.57	U	mg/kg	0.57	12/03/2015	12/14/2015	12/04/2015	87.4	1	50	AS	LOR-09
45671	MF6R00	MF6R04	5120091-05	S	Field_Sample	12/14/2015	15:07:57	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/03/2015	12/14/2015	12/04/2015	85.6	1	50	AS	FD-01

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. MF6R00 SDG Nos. To Follow Mod. Ref. No. 2542.1 Date Rec 12/28/15

EPA Lab ID: BON

Lab location: Hattiesburg, MS

Region: 6 Audit No.: 45671/MF6R00

Resubmitted CSF? Yes No X

Box No(s): 1

COMMENTS:

4. Page 26 was included but not listed on Form DC-2.

14/15 Sample tags were not required for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?		X	
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: Sonya Meekins/ESAT Data Reviewer Date 01/04/16

Audited by: Date

Signature Printed Name/Title

DC-2

015916

In Reference To Case No(s):
45671 SDG: MF6R00 (I-0677)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	BON
Lab Contact:	Chris Bonner
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Sonya Meekins - ESAT

In reference to data for the following fractions:

CSF

Summary of Questions/Issues:

1. Page 26 was not listed on Form DC-2 (ISM02.3, p. B-52, sect 3.6.2.1). Please add this page number in an appropriate section on Form DC-2.

2. The corrections on Form DC-2-1 (p. 8) were not initialed and dated. Please add this contract-required information and resubmit this page with proper pagination (ISM02.3, p. E-17, sec. 5.6.7).

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item **within 5 business days (ISM02.3, p. B-9, sec. 2.2.1)** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015917

USEPA CLP COC (LAB COPY)
DateShipped: 12/3/2015
CarrierName: FedEx
AirbillNo: 859483220443

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW140 29 MF6R00

No: 6-120315-171308-0004
Lab: Bonner Analytical Testing Company - BON
Lab Contact: Chris Bonner
Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0001	MF6R00	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1013 (4 C) (1)	P-04-01	12/03/2015 09:05	
277-0002	MF6R01	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1020 (4 C) (1)	LOR-06	12/03/2015 10:30	
277-0003	MF6R02	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1027 (4 C) (1)	LOR-12	12/03/2015 11:10	
277-0004	MF6R03	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1034 (4 C) (1)	LOR-09	12/03/2015 11:45	
277-0005	MF6R04	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1041 (4 C) (1)	FD-01	12/03/2015 14:40	

Page 1 of 1

Sample(s) to be used for Lab QC: 277-0001 Tag 1013 - Special Instructions: ICP-AES for Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium.
ICP-MS for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMs+Hg+Cn=TotalMetals ICP-AES +Hg+Cn by ISM02.3, ICP-MS by ISM02.3/MA#2542.1

5°C

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LM SERAS	1600 12/3/15		1018 12-4-15	good

5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 12, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: MF6R05

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 11, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1602-212-0010
TDF No.:	6-16-113A
ESAT File No.:	I-0679

Attached is the data review summary for Case # 45671
SDG # MF6R05
Site Wilcox Oil

015920

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY BON	NO. OF SAMPLES 13
CONTRACT# EP-W-14-029	MATRIX Soil
SDG# MF6R05	REVIEWER (IF NOT ESB) ESAT
SOW# ISM02.3/MA 2542.1	REVIEWER'S NAME Sonya Meekins
SF# 303DD2GG	COMPLETION DATE January 11, 2016

SAMPLE NO.				
MF6R05	MF6R09	MF6R13	MF6R17	
MF6R06	MF6R10	MF6R14		
MF6R07	MF6R11	MF6R15		
MF6R08	MF6R12	MF6R16		

	ICP-AES	ICP-MS	HG	CN
1. HOLDING TIMES	O	O	O	O
2. CALIBRATIONS	O	O	O	O
3. BLANKS	O	O	O	O
4. MATRIX SPIKES	O	O	O	O
5. DUPLICATE ANALYSIS	O	O	O	O
6. ICP QC	O	O	N/A	N/A
7. LCS	O	O	N/A	N/A
8. SAMPLE VERIFICATION	O	O	O	O
9. OTHER QC	N/A	N/A	N/A	N/A
10. OVERALL ASSESSMENT	O	O	O	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN:

015921

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** MF6R05 **SITE** Wilcox Oil **LAB** BON

COMMENTS: This SDG consisted of 13 soil samples for total metals (by ICP-AES and ICP-MS), mercury, and cyanide analyses following SOW ISM02.3. The samples were also subject to Modified Analysis Request 2542.1 (MA 2542.1), which requested a lower CRQL for thallium. The sampler designated samples MF6R05 and MF6R15 for QC analyses. However, the laboratory only performed QC analyses on sample MF6R05.

The SOW requires that the soil sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW and MA 2542.1. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

The target analytes of concern with the desired CRQLs in parentheses are antimony (1.0 mg/kg), arsenic (0.5 mg/kg), cadmium (0.5 mg/kg), chromium (1.0 mg/kg), cobalt (0.5 mg/kg), selenium (2.5 mg/kg), and thallium (0.25 mg/kg). The analytes of concern detected above the SQLs are arsenic, chromium, and cobalt in all samples. The laboratory reanalyzed sample MF6R15 at the required 2X dilution because the %RI for IS SC-45 was above the QC limit in the undiluted analysis of this sample. The dilution had an acceptable %RI for IS SC-45, so the laboratory reported the results associated with IS SC-45 from the diluted analysis. The laboratory also diluted 3X and reanalyzed sample MF6R15 because of a high iron concentration.

S3VEM Review was performed for this data package as requested by the TDF. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: All results were acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for a reporting issue (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

015922

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

015923

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
QCCOD:	Sample QC Code
SMPQUAL:	Sample Qualifier
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
PRPDATE:	Sample Preparation Date
LRDATE:	Laboratory Receipt Date
LEVEL:	Sample Level
PERSOLD:	Sample Percent Solids
SMPWTVL:	Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL:	Final Sample Volume
METHOD:	Method of Analysis
STATLOC:	Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

015924

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

015925

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-38-2	Arsenic	2.4		mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-39-3	Barium	43.1		mg/kg	6.0	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-41-7	Beryllium	0.60	U	mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-43-9	Cadmium	0.60	U	mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-47-3	Chromium	13.8		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-48-4	Cobalt	3.1		mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-50-8	Copper	7.1		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7439-92-1	Lead	46.0		mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7439-96-5	Manganese	192		mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-02-0	Nickel	5.4		mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7782-49-2	Selenium	3.0	U	mg/kg	3.0	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-22-4	Silver	0.60	U	mg/kg	0.60	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-28-0	Thallium	0.30	U	mg/kg	0.30	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-62-2	Vanadium	11.2		mg/kg	3.0	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/23/2015	14:28:48	7440-66-6	Zinc	41.1		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		83.3	1	500	MS	WIL-30
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-38-2	Arsenic	1.5		mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-39-3	Barium	54.3		mg/kg	5.9	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-41-7	Beryllium	0.59	U	mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-43-9	Cadmium	0.59	U	mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-47-3	Chromium	8.2		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-48-4	Cobalt	3.0		mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-50-8	Copper	4.0		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7439-92-1	Lead	19.6		mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7439-96-5	Manganese	238		mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-02-0	Nickel	4.4		mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-22-4	Silver	0.59	U	mg/kg	0.59	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-62-2	Vanadium	13.0		mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/23/2015	14:44:55	7440-66-6	Zinc	22.2		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		84.8	1	500	MS	WIL-29
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-38-2	Arsenic	1.7		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-39-3	Barium	29.3		mg/kg	5.8	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-47-3	Chromium	7.1		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-48-4	Cobalt	2.3		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-50-8	Copper	3.6		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7439-92-1	Lead	5.5		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7439-96-5	Manganese	59.8		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-02-0	Nickel	4.9		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-62-2	Vanadium	9.8		mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/23/2015	14:48:58	7440-66-6	Zinc	5.3		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-05
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-38-2	Arsenic	2.7		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-39-3	Barium	18.3		mg/kg	5.8	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-47-3	Chromium	6.7		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-48-4	Cobalt	3.2		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-50-8	Copper	5.8		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7439-92-1	Lead	6.8		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7439-96-5	Manganese	67.7		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-02-0	Nickel	3.5		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-62-2	Vanadium	12.8		mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/23/2015	14:52:59	7440-66-6	Zinc	3.8		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		86.7	1	500	MS	WIL-25
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-38-2	Arsenic	3.4		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-39-3	Barium	49.1		mg/kg	5.8	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-47-3	Chromium	7.9		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015		85.5	1	500	MS	TF-11-03

015926

45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-48-4	Cobalt	10.4		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-50-8	Copper	5.1		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7439-92-1	Lead	4.3		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7439-96-5	Manganese	1470		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-02-0	Nickel	7.3		mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-62-2	Vanadium	15.7		mg/kg	2.9	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/23/2015	14:57:01	7440-66-6	Zinc	5.4		mg/kg	1.2	12/07/2015	12/14/2015	12/09/2015	85.5	1	500	MS	TF-11-03
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-38-2	Arsenic	2.4		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-39-3	Barium	76.0		mg/kg	5.8	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-47-3	Chromium	8.7		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-48-4	Cobalt	4.2		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-50-8	Copper	4.7		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7439-92-1	Lead	5.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7439-96-5	Manganese	94.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-02-0	Nickel	6.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-62-2	Vanadium	13.8		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/23/2015	15:01:03	7440-66-6	Zinc	6.3		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.1	1	500	MS	TF-11-05
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-38-2	Arsenic	1.6		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-39-3	Barium	70.4		mg/kg	5.8	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-47-3	Chromium	7.7		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-48-4	Cobalt	3.8		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-50-8	Copper	4.6		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7439-92-1	Lead	3.5		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7439-96-5	Manganese	26.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-02-0	Nickel	9.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-62-2	Vanadium	13.7		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/23/2015	15:13:30	7440-66-6	Zinc	10.0		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	TF-12-01
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-36-0	Antimony	1.1	U	mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-38-2	Arsenic	1.9		mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-39-3	Barium	50.6		mg/kg	5.7	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-41-7	Beryllium	0.57	U	mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-43-9	Cadmium	0.57	U	mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-47-3	Chromium	7.5		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-48-4	Cobalt	4.4		mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-50-8	Copper	3.4		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7439-92-1	Lead	2.6		mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7439-96-5	Manganese	109		mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-02-0	Nickel	6.9		mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-22-4	Silver	0.57	U	mg/kg	0.57	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-62-2	Vanadium	13.2		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/23/2015	15:17:33	7440-66-6	Zinc	7.6		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	87.3	1	500	MS	TF-12-05
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-38-2	Arsenic	1.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-39-3	Barium	25.5		mg/kg	5.8	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-47-3	Chromium	5.4		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-48-4	Cobalt	1.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-50-8	Copper	3.1		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7439-92-1	Lead	2.0		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7439-96-5	Manganese	59.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-02-0	Nickel	4.2		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02

015927

45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-62-2	Vanadium	9.5		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/23/2015	15:21:36	7440-66-6	Zinc	6.0		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	86.0	1	500	MS	FD-02
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-36-0	Antimony	1.1	U	mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-38-2	Arsenic	3.8		mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-39-3	Barium	70.2		mg/kg	5.6	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-41-7	Beryllium	0.56	U	mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-43-9	Cadmium	0.56	U	mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-47-3	Chromium	8.7		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-48-4	Cobalt	4.1		mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-50-8	Copper	3.5		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7439-92-1	Lead	2.8		mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7439-96-5	Manganese	62.5		mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-02-0	Nickel	6.8		mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7782-49-2	Selenium	2.8	U	mg/kg	2.8	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-22-4	Silver	0.56	U	mg/kg	0.56	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-28-0	Thallium	0.28	U	mg/kg	0.28	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-62-2	Vanadium	12.0		mg/kg	2.8	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/23/2015	15:25:39	7440-66-6	Zinc	8.0		mg/kg	1.1	12/08/2015	12/14/2015	12/09/2015	89.8	1	500	MS	TF-12-06
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-38-2	Arsenic	9.4		mg/kg	0.59	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-39-3	Barium	56.2		mg/kg	5.9	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-41-7	Beryllium	1.1		mg/kg	0.59	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/28/2015	11:06:20	7440-43-9	Cadmium	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-47-3	Chromium	31.6		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/28/2015	11:06:20	7440-48-4	Cobalt	7.6		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/28/2015	11:06:20	7440-50-8	Copper	4.4		mg/kg	2.3	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7439-92-1	Lead	14.6		mg/kg	0.59	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7439-96-5	Manganese	64.1		mg/kg	0.59	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-02-0	Nickel	43.4		mg/kg	0.59	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/28/2015	11:06:20	7440-22-4	Silver	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/23/2015	15:29:42	7440-62-2	Vanadium	35.2		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/28/2015	11:06:20	7440-66-6	Zinc	14.6		mg/kg	2.3	12/08/2015	12/14/2015	12/09/2015	85.2	1	500	MS	WIL-20
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-38-2	Arsenic	3.2		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-39-3	Barium	65.0		mg/kg	5.8	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-47-3	Chromium	8.6		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-48-4	Cobalt	4.1		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-50-8	Copper	5.2		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7439-92-1	Lead	4.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7439-96-5	Manganese	78.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-02-0	Nickel	5.8		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-62-2	Vanadium	18.6		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/23/2015	15:33:43	7440-66-6	Zinc	6.0		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.7	1	500	MS	WIL-35
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-38-2	Arsenic	1.8		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-39-3	Barium	34.9		mg/kg	5.8	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-47-3	Chromium	10.7		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-48-4	Cobalt	3.3		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-50-8	Copper	4.6		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7439-92-1	Lead	3.4		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7439-96-5	Manganese	94.9		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-02-0	Nickel	7.0		mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-62-2	Vanadium	12.6		mg/kg	2.9	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/23/2015	15:37:46	7440-66-6	Zinc	8.0		mg/kg	1.2	12/08/2015	12/14/2015	12/09/2015	85.9	1	500	MS	WIL-14
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7429-90-5	Aluminum	6720		mg/kg	24.0	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7440-70-2	Calcium	2140		mg/kg	600	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7439-89-6	Iron	8340		mg/kg	12.0	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7439-95-4	Magnesium	757		mg/kg	600	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30

45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7440-09-7	Potassium	876		mg/kg	600	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/16/2015	12:28:42	7440-23-5	Sodium	29.2	LJ	mg/kg	600	12/07/2015	12/14/2015	12/09/2015	83.3	1	100	P	WIL-30
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7429-90-5	Aluminum	9710		mg/kg	23.6	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7440-70-2	Calcium	824		mg/kg	590	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7439-89-6	Iron	8430		mg/kg	11.8	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7439-95-4	Magnesium	728		mg/kg	590	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7440-09-7	Potassium	1150		mg/kg	590	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/16/2015	12:46:22	7440-23-5	Sodium	45.5	LJ	mg/kg	590	12/07/2015	12/14/2015	12/09/2015	84.8	1	100	P	WIL-29
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7429-90-5	Aluminum	10000		mg/kg	23.1	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7440-70-2	Calcium	666		mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7439-89-6	Iron	11800		mg/kg	11.5	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7439-95-4	Magnesium	1270		mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7440-09-7	Potassium	1490		mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/16/2015	12:50:47	7440-23-5	Sodium	47.1	LJ	mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-05
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7429-90-5	Aluminum	4940		mg/kg	23.1	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7440-70-2	Calcium	577	U	mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7439-89-6	Iron	7950		mg/kg	11.5	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7439-95-4	Magnesium	577	U	mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7440-09-7	Potassium	708		mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/16/2015	12:55:10	7440-23-5	Sodium	9.8	LJ	mg/kg	577	12/07/2015	12/14/2015	12/09/2015	86.7	1	100	P	WIL-25
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7429-90-5	Aluminum	11400		mg/kg	23.4	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7440-70-2	Calcium	585	U	mg/kg	585	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7439-89-6	Iron	9070		mg/kg	11.7	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7439-95-4	Magnesium	899		mg/kg	585	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7440-09-7	Potassium	1300		mg/kg	585	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/16/2015	12:59:39	7440-23-5	Sodium	26.0	LJ	mg/kg	585	12/07/2015	12/14/2015	12/09/2015	85.5	1	100	P	TF-11-03
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7429-90-5	Aluminum	12200		mg/kg	23.2	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7440-70-2	Calcium	589		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7439-89-6	Iron	9790		mg/kg	11.6	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7439-95-4	Magnesium	1080		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7440-09-7	Potassium	1560		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/16/2015	13:04:05	7440-23-5	Sodium	34.2	LJ	mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.1	1	100	P	TF-11-05
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7429-90-5	Aluminum	14400		mg/kg	23.3	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7440-70-2	Calcium	1140		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7439-89-6	Iron	11900		mg/kg	11.6	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7439-95-4	Magnesium	1830		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7440-09-7	Potassium	1520		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/16/2015	13:17:41	7440-23-5	Sodium	89.2	LJ	mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	TF-12-01
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7429-90-5	Aluminum	12700		mg/kg	22.9	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7440-70-2	Calcium	840		mg/kg	573	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7439-89-6	Iron	11200		mg/kg	11.5	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7439-95-4	Magnesium	1410		mg/kg	573	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7440-09-7	Potassium	1370		mg/kg	573	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/16/2015	13:22:06	7440-23-5	Sodium	123	LJ	mg/kg	573	12/08/2015	12/14/2015	12/09/2015	87.3	1	100	P	TF-12-05
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7429-90-5	Aluminum	6470		mg/kg	23.3	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7440-70-2	Calcium	581	U	mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7439-89-6	Iron	5190		mg/kg	11.6	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7439-95-4	Magnesium	740		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7440-09-7	Potassium	797		mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/16/2015	13:26:31	7440-23-5	Sodium	57.9	LJ	mg/kg	581	12/08/2015	12/14/2015	12/09/2015	86.0	1	100	P	FD-02
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7429-90-5	Aluminum	15500		mg/kg	22.3	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7440-70-2	Calcium	1210		mg/kg	557	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7439-89-6	Iron	17400		mg/kg	11.1	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7439-95-4	Magnesium	1720		mg/kg	557	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7440-09-7	Potassium	1770		mg/kg	557	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/16/2015	13:30:59	7440-23-5	Sodium	305	LJ	mg/kg	557	12/08/2015	12/14/2015	12/09/2015	89.8	1	100	P	TF-12-06
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:35:22	7429-90-5	Aluminum	12400		mg/kg	23.5	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:35:22	7440-70-2	Calcium	2410		mg/kg	587	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:56:03	7439-89-6	Iron	50300		mg/kg	35.2	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:35:22	7439-95-4	Magnesium	2630		mg/kg	587	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:35:22	7440-09-7	Potassium	3420		mg/kg	587	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/16/2015	13:35:22	7440-23-5	Sodium	1820		mg/kg	587	12/08/2015	12/14/2015	12/09/2015	85.2	1	100	P	WIL-20
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7429-90-5	Aluminum	12400		mg/kg	23.3	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7440-70-2	Calcium	583	U	mg/kg	583	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7439-89-6	Iron	11800		mg/kg	11.7	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7439-95-4	Magnesium	1050		mg/kg	583	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7440-09-7	Potassium	1300		mg/kg	583	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/16/2015	13:39:43	7440-23-5	Sodium	30.3	LJ	mg/kg	583	12/08/2015	12/14/2015	12/09/2015	85.7	1	100	P	WIL-35
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7429-90-5	Aluminum	12000		mg/kg	23.3	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7440-70-2	Calcium	1260		mg/kg	582	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7439-89-6	Iron	15300		mg/kg	11.6	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14

015929

45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7439-95-4	Magnesium	1280		mg/kg	582	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7440-09-7	Potassium	1550		mg/kg	582	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/16/2015	13:44:07	7440-23-5	Sodium	231	LJ	mg/kg	582	12/08/2015	12/14/2015	12/09/2015	85.9	1	100	P	WIL-14
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/10/2015	17:07:38	7439-97-6	Mercury	0.095	LJ	mg/kg	0.12	12/07/2015	12/10/2015	12/09/2015	83.3	0.5	100	CV	WIL-30
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/10/2015	17:10:10	7439-97-6	Mercury	0.25		mg/kg	0.12	12/07/2015	12/10/2015	12/09/2015	84.8	0.5	100	CV	WIL-29
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/10/2015	17:12:43	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/07/2015	12/10/2015	12/09/2015	86.7	0.5	100	CV	WIL-05
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/10/2015	17:15:14	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/07/2015	12/10/2015	12/09/2015	86.7	0.5	100	CV	WIL-25
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/10/2015	17:17:45	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/07/2015	12/10/2015	12/09/2015	85.5	0.5	100	CV	TF-11-03
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/10/2015	17:20:16	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	86.1	0.5	100	CV	TF-11-05
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/10/2015	17:22:48	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	86.0	0.5	100	CV	TF-12-01
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/10/2015	17:25:20	7439-97-6	Mercury	0.11	U	mg/kg	0.11	12/08/2015	12/10/2015	12/09/2015	87.3	0.5	100	CV	TF-12-05
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/10/2015	17:27:52	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	86.0	0.5	100	CV	FD-02
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/10/2015	17:30:24	7439-97-6	Mercury	0.010	LJ	mg/kg	0.11	12/08/2015	12/10/2015	12/09/2015	89.8	0.5	100	CV	TF-12-06
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/10/2015	17:32:56	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	85.2	0.5	100	CV	WIL-20
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/10/2015	17:35:27	7439-97-6	Mercury	0.12	U	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	85.7	0.5	100	CV	WIL-35
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/10/2015	17:37:59	7439-97-6	Mercury	0.0057	LJ	mg/kg	0.12	12/08/2015	12/10/2015	12/09/2015	85.9	0.5	100	CV	WIL-14
45671	MF6R05	MF6R05	5120128-01	S	Field_Sample	12/15/2015	14:54:46	57-12-5	Cyanide	0.60	U	mg/kg	0.60	12/07/2015	12/15/2015	12/09/2015	83.3	1	50	AS	WIL-30
45671	MF6R05	MF6R06	5120128-02	S	Field_Sample	12/15/2015	14:57:16	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/07/2015	12/15/2015	12/09/2015	84.8	1	50	AS	WIL-29
45671	MF6R05	MF6R07	5120128-03	S	Field_Sample	12/15/2015	14:58:06	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/07/2015	12/15/2015	12/09/2015	86.7	1	50	AS	WIL-05
45671	MF6R05	MF6R08	5120128-04	S	Field_Sample	12/15/2015	14:58:56	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/07/2015	12/15/2015	12/09/2015	86.7	1	50	AS	WIL-25
45671	MF6R05	MF6R09	5120128-05	S	Field_Sample	12/15/2015	14:59:46	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/07/2015	12/15/2015	12/09/2015	85.5	1	50	AS	TF-11-03
45671	MF6R05	MF6R10	5120128-06	S	Field_Sample	12/15/2015	15:00:36	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/08/2015	12/15/2015	12/09/2015	86.1	1	50	AS	TF-11-05
45671	MF6R05	MF6R11	5120128-07	S	Field_Sample	12/15/2015	15:01:26	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/08/2015	12/15/2015	12/09/2015	86.0	1	50	AS	TF-12-01
45671	MF6R05	MF6R12	5120128-08	S	Field_Sample	12/15/2015	15:02:16	57-12-5	Cyanide	0.57	U	mg/kg	0.57	12/08/2015	12/15/2015	12/09/2015	87.3	1	50	AS	TF-12-05
45671	MF6R05	MF6R13	5120128-09	S	Field_Sample	12/15/2015	15:03:06	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/08/2015	12/15/2015	12/09/2015	86.0	1	50	AS	FD-02
45671	MF6R05	MF6R14	5120128-10	S	Field_Sample	12/15/2015	15:03:56	57-12-5	Cyanide	0.56	U	mg/kg	0.56	12/08/2015	12/15/2015	12/09/2015	89.8	1	50	AS	TF-12-06
45671	MF6R05	MF6R15	5120128-11	S	Field_Sample	12/15/2015	15:04:46	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/08/2015	12/15/2015	12/09/2015	85.2	1	50	AS	WIL-20
45671	MF6R05	MF6R16	5120128-12	S	Field_Sample	12/15/2015	15:05:36	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/08/2015	12/15/2015	12/09/2015	85.7	1	50	AS	WIL-35
45671	MF6R05	MF6R17	5120128-13	S	Field_Sample	12/15/2015	15:06:26	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/08/2015	12/15/2015	12/09/2015	85.9	1	50	AS	WIL-14

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. MF6R05 SDG Nos. To Follow Mod. Ref. No. 2542.1 Date Rec 12/30/15

EPA Lab ID: BON

Lab location: Hattiesburg, MS

Region: 6 Audit No.: 45671/MF6R05

Resubmitted CSF? Yes No X

Box No(s): 1

COMMENTS:

14/15 Sample tags were not required for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: Sonya Meekins/ESAT Data Reviewer Date 01/08/16

Audited by: Date

Signature Printed Name/Title

DC-2_

015931

In Reference To Case No(s):
45671 SDG: MF6R05 (I-0679)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	BON
Lab Contact:	Chris Bonner
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Sonya Meekins - ESAT

In reference to data for the following fractions:

ICP-MS

Summary of Questions/Issues:

The non-blank standard at or below the MA 2542.1 CRQL for thallium was not reported on Form 15 as required by Section II of MA 2542.1. Please make the necessary corrections and resubmissions with the pages properly paginated.

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item **within 5 business days (ISM02.3, p. B-9, sec. 2.2.1)** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015932

USEPA CLP COC (LAB COPY)

DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220031

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14029 MF6R05

No: 6-120815-180612-0008

Lab: Bonner Analytical Testing Company - BON
Lab Contact: Chris Bonner
Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0006	MF6R05 QC	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1048 (4 C) (1)	WIL-30	12/07/2015 09:45	
277-0007	MF6R06	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1055 (4 C) (1)	WIL-29	12/07/2015 10:30	
277-0008	MF6R07	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1062 (4 C) (1)	WIL-05	12/07/2015 12:20	
277-0009	MF6R08	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1069 (4 C) (1)	WIL-25	12/07/2015 14:40	
277-0010	MF6R09	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1076 (4 C) (1)	TF-11-03	12/07/2015 16:15	
277-0011	MF6R10	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1083 (4 C) (1)	TF-11-05	12/08/2015 08:40	
277-0012	MF6R11	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1090 (4 C) (1)	TF-12-01	12/08/2015 09:50	
277-0013	MF6R12	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1097 (4 C) (1)	TF-12-05	12/08/2015 11:15	
277-0014	MF6R13	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1104 (4 C) (1)	FD-02	12/08/2015 11:15	
277-0015	MF6R14	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1111 (4 C) (1)	TF-12-06	12/08/2015 12:10	

Page 14 of 15

Sample(s) to be used for Lab QC: 277-0006 Tag 1048, 277-0016 Tag 1118 - Special Instructions: ICP-AES for Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium.
ICP-MS for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMs+Hg+Cn=TotalMetals ICP-AES +Hg+Cn by ISM02.3, ICP-MS by ISM02.3/MA#2542.1 QC

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Re/Analysis	LM SERAS	12/8/15 1715		1019 12-9-15	good

015933

USEPA CLP COC (LAB COPY)

DateShipped: 12/8/2015

CarrierName: FedEx

AirbillNo: 859483220031

CHAIN OF CUSTODY RECORD

Case #: 45671

Cooler #: EPW14029 MF6R05

No: 6-120815-180612-0008

Lab: Bonner Analytical Testing Company - BON

Lab Contact: Chris Bonner

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0016	MF6R15	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1118 (4 C) (1)	WIL-20	12/08/2015 15:00	
277-0017	MF6R16	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1125 (4 C) (1)	WIL-35	12/08/2015 15:25	
277-0018	MF6R17	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1132 (4 C) (1)	WIL-14	12/08/2015 16:30	

Page 15 of 15

Sample(s) to be used for Lab QC: 277-0016 Tag 1118 - Special Instructions: ICP-AES for Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium.

ICP-MS for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMs+Hg+Cn=TotalMetals ICP-AES +Hg+Cn by ISM02.3, ICP-MS by ISM02.3/MA#2542.1

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AV/ANALYSIS	LM SERAS	12/8/15 1715	P. Ash Barr	1019 12-9-15	good

6

ADDENDUM

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

HoldingTimes_Preservation

Method - Metals by ICP-AES

Test Name: EXES-462
Defect Message: The following soil samples were not maintained at = 6°C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF6R05, MF6R05L, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

	MF6R09, MF6R08, MF6R07, MF6R06, MF6R05, MF6R05L, MF6R05D, MF6R12, MF6R13, MF6R10, MF6R11, MF6R16, MF6R17, MF6R14, MF6R15

Method - Metals by ICP-MS

Test Name: EXES-462
Defect Message: The following soil samples were not maintained at = 6°C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF6R05, MF6R05A, MF6R05L, MF6R05S, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

	MF6R09, MF6R08, MF6R07, MF6R05S, MF6R06, MF6R05, MF6R05L, MF6R05D, MF6R12, MF6R13, MF6R10, MF6R11, MF6R16, MF6R17, MF6R14, MF6R15, MF6R05A

Method - Mercury by Cold Vapor

Test Name: EXES-462
Defect Message: The following soil samples were not maintained at = 6°C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF6R05, MF6R05S, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

	MF6R09, MF6R08, MF6R05S, MF6R07, MF6R06, MF6R05, MF6R05D, MF6R12, MF6R13, MF6R10, MF6R11, MF6R16, MF6R17, MF6R14, MF6R15

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Method - Cyanide

Test Name: EXES-462

Defect Message: The following soil samples were not maintained at = 6°C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF6R05, MF6R05S, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

	MF6R09, MF6R08, MF6R07, MF6R05S, MF6R06, MF6R05, MF6R05D, MF6R12, MF6R13, MF6R10, MF6R11, MF6R16, MF6R17, MF6R14, MF6R15

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

TUNE

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InitialCalibration

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

ContinuingCalibrationVerification

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Blanks

Method - Metals by ICP-AES

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R16, MF6R17

Calcium	MF6R16, MF6R08, MF6R09, MF6R13
Magnesium	MF6R08
Sodium	MF6R08, MF6R05, MF6R14, MF6R16, MF6R10, MF6R12, MF6R09, MF6R07, MF6R11, MF6R06, MF6R17, MF6R13

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R15, MF6R16, MF6R08, MF6R06, MF6R13, MF6R07, MF6R09, MF6R11, MF6R05, MF6R10, MF6R14, MF6R17, MF6R12
Calcium	MF6R17, MF6R07, MF6R12, MF6R06, MF6R05, MF6R14, MF6R10, MF6R11, MF6R15
Iron	MF6R13, MF6R09, MF6R15, MF6R16, MF6R10, MF6R11, MF6R07, MF6R08, MF6R17, MF6R06, MF6R14, MF6R05, MF6R12
Magnesium	MF6R10, MF6R17, MF6R16, MF6R06, MF6R14, MF6R13, MF6R12, MF6R05, MF6R15, MF6R09, MF6R11, MF6R07
Potassium	MF6R08, MF6R14, MF6R09, MF6R05, MF6R06, MF6R12, MF6R11, MF6R10, MF6R17, MF6R13, MF6R16, MF6R15, MF6R07
Sodium	MF6R15

Test Name: EXES-479
Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R09, MF6R07, MF6R16, MF6R12, MF6R17, MF6R15, MF6R11, MF6R14, MF6R10, MF6R13, MF6R06, MF6R05, MF6R08
Calcium	MF6R12, MF6R15, MF6R17, MF6R07, MF6R10, MF6R05, MF6R06, MF6R11, MF6R14
Iron	MF6R09, MF6R15, MF6R13, MF6R16, MF6R10, MF6R06, MF6R05, MF6R11, MF6R14, MF6R08, MF6R12, MF6R07, MF6R17
Magnesium	MF6R10, MF6R17, MF6R16, MF6R06, MF6R14, MF6R13, MF6R12, MF6R05, MF6R15, MF6R09, MF6R11, MF6R07
Potassium	MF6R08, MF6R14, MF6R09, MF6R05, MF6R06, MF6R12, MF6R11, MF6R10, MF6R17, MF6R13, MF6R16, MF6R07, MF6R15
Sodium	MF6R15

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-480
Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R14, MF6R09, MF6R16, MF6R12, MF6R17, MF6R08, MF6R06, MF6R15, MF6R13, MF6R07, MF6R11, MF6R05, MF6R10
Iron	MF6R14, MF6R17, MF6R08, MF6R09, MF6R10, MF6R16, MF6R13, MF6R06, MF6R15, MF6R11, MF6R12, MF6R07, MF6R05
Magnesium	MF6R05, MF6R10, MF6R17, MF6R15, MF6R14, MF6R09, MF6R11, MF6R13, MF6R16, MF6R07, MF6R06, MF6R08, MF6R12
Potassium	MF6R09, MF6R10, MF6R12, MF6R14, MF6R13, MF6R11, MF6R15, MF6R16, MF6R08, MF6R17, MF6R07, MF6R05, MF6R06
Sodium	MF6R13, MF6R15, MF6R17, MF6R06, MF6R11, MF6R12, MF6R08, MF6R05, MF6R14, MF6R10, MF6R09, MF6R07, MF6R16

Test Name: EXES-481
Defect Message: The following samples are associated with ICB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R15, MF6R05, MF6R07, MF6R13, MF6R08, MF6R06, MF6R14, MF6R12, MF6R16, MF6R09, MF6R11, MF6R10, MF6R17
Calcium	MF6R05, MF6R14, MF6R11, MF6R06, MF6R07, MF6R15, MF6R08, MF6R17, MF6R10, MF6R13, MF6R09, MF6R12, MF6R16
Iron	MF6R07, MF6R11, MF6R08, MF6R05, MF6R15, MF6R16, MF6R17, MF6R14, MF6R06, MF6R09, MF6R13, MF6R12, MF6R10
Magnesium	MF6R05, MF6R13, MF6R14, MF6R06, MF6R16, MF6R17, MF6R12, MF6R07, MF6R08, MF6R11, MF6R09, MF6R15, MF6R10
Potassium	MF6R06, MF6R05, MF6R07, MF6R17, MF6R08, MF6R16, MF6R09, MF6R11, MF6R13, MF6R14, MF6R12, MF6R10, MF6R15
Sodium	MF6R13, MF6R15, MF6R17, MF6R06, MF6R11, MF6R12, MF6R08, MF6R05, MF6R14, MF6R10, MF6R09, MF6R07, MF6R16

Test Name: EXES-508
Defect Message: The following samples have analyte results greater than CRQLs. The associated PB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R10, MF6R08, MF6R06, MF6R05, MF6R13, MF6R07, MF6R15, MF6R12, MF6R16, MF6R14, MF6R09, MF6R11, MF6R17
Iron	MF6R09, MF6R10, MF6R16, MF6R13, MF6R11, MF6R15, MF6R17, MF6R08, MF6R06, MF6R07, MF6R05, MF6R14, MF6R12
Potassium	MF6R10, MF6R12, MF6R14, MF6R13, MF6R11, MF6R15, MF6R16, MF6R08, MF6R17, MF6R07, MF6R09, MF6R06, MF6R05
Sodium	MF6R15

Test Name: EXES-549
Defect Message: The following samples are associated with PB that has analyte results less than or equal to (-MDL) but greater than or equal to (-CRQL). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-549
Defect Message: The following samples are associated with PB that has analyte results less than or equal to (-MDL) but greater than or equal to (-CRQL). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Aluminum	MF6R14, MF6R06, MF6R11, MF6R15, MF6R10, MF6R09, MF6R17, MF6R13, MF6R07, MF6R08, MF6R16, MF6R12, MF6R05
Iron	MF6R13, MF6R10, MF6R16, MF6R15, MF6R17, MF6R12, MF6R05, MF6R07, MF6R08, MF6R11, MF6R14, MF6R09, MF6R06
Potassium	MF6R11, MF6R15, MF6R16, MF6R08, MF6R17, MF6R07, MF6R05, MF6R06, MF6R09, MF6R10, MF6R12, MF6R14, MF6R13
Sodium	MF6R11, MF6R06, MF6R17, MF6R15, MF6R16, MF6R09, MF6R14, MF6R13, MF6R12, MF6R08, MF6R10, MF6R05, MF6R07

Method - Metals by ICP-MS

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Antimony	MF6R15
Beryllium	MF6R10, MF6R16, MF6R07, MF6R14, MF6R17, MF6R09, MF6R05, MF6R12, MF6R08, MF6R13, MF6R06, MF6R11
Cadmium	MF6R06, MF6R09, MF6R05
Selenium	MF6R11, MF6R09, MF6R16, MF6R17, MF6R14, MF6R08, MF6R07, MF6R15, MF6R10, MF6R06, MF6R05
Silver	MF6R05, MF6R13, MF6R15, MF6R17, MF6R06, MF6R16, MF6R11, MF6R12, MF6R14, MF6R10, MF6R09
Thallium	MF6R17, MF6R05, MF6R07, MF6R06, MF6R15, MF6R10, MF6R09, MF6R12, MF6R16, MF6R14, MF6R11

Test Name: EXES-476
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Cadmium	MF6R09, MF6R06, MF6R05
Silver	MF6R14, MF6R16, MF6R11, MF6R12, MF6R17, MF6R13, MF6R05, MF6R10, MF6R15, MF6R06, MF6R09
Thallium	MF6R09, MF6R10, MF6R06, MF6R07, MF6R15, MF6R17, MF6R14, MF6R12, MF6R16, MF6R11, MF6R05

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-478

Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.

Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Arsenic	MF6R05, MF6R16, MF6R17, MF6R12, MF6R06, MF6R14, MF6R15, MF6R13, MF6R10, MF6R08, MF6R09, MF6R11, MF6R07
Barium	MF6R07, MF6R05, MF6R06, MF6R14, MF6R17, MF6R15, MF6R10, MF6R09, MF6R16, MF6R11, MF6R12, MF6R13, MF6R08
Beryllium	MF6R15
Chromium	MF6R05, MF6R13, MF6R06, MF6R12, MF6R07, MF6R08, MF6R14, MF6R17, MF6R15, MF6R16, MF6R11, MF6R09, MF6R10
Cobalt	MF6R09, MF6R10, MF6R06, MF6R15, MF6R08, MF6R13, MF6R16, MF6R12, MF6R07, MF6R17, MF6R14, MF6R11, MF6R05
Copper	MF6R12, MF6R17, MF6R08, MF6R11, MF6R16, MF6R09, MF6R13, MF6R15, MF6R10, MF6R07, MF6R05, MF6R14, MF6R06
Lead	MF6R17, MF6R16, MF6R06, MF6R13, MF6R15, MF6R12, MF6R08, MF6R09, MF6R11, MF6R05, MF6R07, MF6R10, MF6R14
Manganese	MF6R15, MF6R06, MF6R16, MF6R11, MF6R08, MF6R05, MF6R07, MF6R17, MF6R13, MF6R14, MF6R10, MF6R09, MF6R12
Nickel	MF6R10, MF6R15, MF6R08, MF6R11, MF6R09, MF6R13, MF6R05, MF6R06, MF6R07, MF6R12, MF6R17, MF6R14, MF6R16
Vanadium	MF6R08, MF6R07, MF6R11, MF6R15, MF6R10, MF6R14, MF6R09, MF6R16, MF6R17, MF6R12, MF6R13, MF6R06, MF6R05
Zinc	MF6R08, MF6R16, MF6R06, MF6R11, MF6R10, MF6R05, MF6R17, MF6R14, MF6R09, MF6R07, MF6R12, MF6R13, MF6R15

Test Name: EXES-479

Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.

Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Arsenic	MF6R06, MF6R10, MF6R08, MF6R14, MF6R05, MF6R16, MF6R17, MF6R12, MF6R15, MF6R13, MF6R11, MF6R07, MF6R09
Barium	MF6R14, MF6R06, MF6R17, MF6R08, MF6R12, MF6R07, MF6R05, MF6R11, MF6R16, MF6R09, MF6R10, MF6R15, MF6R13
Beryllium	MF6R15
Chromium	MF6R10, MF6R06, MF6R13, MF6R08, MF6R14, MF6R17, MF6R16, MF6R15, MF6R07, MF6R11, MF6R12, MF6R09, MF6R05
Cobalt	MF6R09, MF6R10, MF6R06, MF6R15, MF6R08, MF6R13, MF6R16, MF6R12, MF6R07, MF6R17, MF6R14, MF6R11, MF6R05
Copper	MF6R12, MF6R17, MF6R08, MF6R11, MF6R16, MF6R09, MF6R13, MF6R15, MF6R10, MF6R07, MF6R05, MF6R14, MF6R06
Lead	MF6R17, MF6R16, MF6R13, MF6R06, MF6R15, MF6R12, MF6R08, MF6R09, MF6R11, MF6R05, MF6R07, MF6R10, MF6R14
Manganese	MF6R15, MF6R16, MF6R06, MF6R11, MF6R08, MF6R05, MF6R07, MF6R17, MF6R13, MF6R14, MF6R10, MF6R09, MF6R12
Nickel	MF6R10, MF6R15, MF6R08, MF6R11, MF6R09, MF6R13, MF6R05, MF6R06, MF6R07, MF6R14, MF6R17, MF6R12, MF6R16
Vanadium	MF6R08, MF6R07, MF6R11, MF6R15, MF6R10, MF6R14, MF6R09, MF6R16, MF6R17, MF6R12, MF6R13, MF6R06, MF6R05
Zinc	MF6R16, MF6R08, MF6R11, MF6R06, MF6R10, MF6R05, MF6R17, MF6R14, MF6R09, MF6R07, MF6R12, MF6R13, MF6R15

Test Name: EXES-480

Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.

Associated Samples: MF6R15

Copper	MF6R15

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-508
Defect Message: The following samples have analyte results greater than CRQLs. The associated PB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Barium	MF6R17, MF6R10, MF6R09, MF6R16, MF6R11, MF6R12, MF6R13, MF6R08, MF6R15, MF6R07, MF6R05, MF6R06, MF6R14
Manganese	MF6R09, MF6R12, MF6R10, MF6R14, MF6R13, MF6R05, MF6R15, MF6R17, MF6R11, MF6R16, MF6R06, MF6R07, MF6R08

Method - Mercury by Cold Vapor

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R06

Mercury	MF6R06

Test Name: EXES-479
Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R06

Mercury	MF6R06

Test Name: EXES-480
Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Mercury	MF6R05, MF6R12, MF6R09, MF6R16, MF6R06, MF6R11, MF6R17, MF6R10, MF6R13, MF6R07, MF6R15, MF6R14, MF6R08

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-481
Defect Message: The following samples are associated with ICB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Mercury	MF6R05, MF6R12, MF6R09, MF6R16, MF6R06, MF6R11, MF6R17, MF6R10, MF6R13, MF6R07, MF6R15, MF6R14, MF6R08

Method - Cyanide

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Cyanide	MF6R05, MF6R11, MF6R12, MF6R09, MF6R16, MF6R14, MF6R07, MF6R15, MF6R10, MF6R06, MF6R17, MF6R08, MF6R13

Test Name: EXES-476
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Cyanide	MF6R05, MF6R11, MF6R12, MF6R09, MF6R16, MF6R14, MF6R07, MF6R10, MF6R15, MF6R06, MF6R17, MF6R08, MF6R13

Test Name: EXES-477
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Cyanide	MF6R05, MF6R11, MF6R12, MF6R09, MF6R16, MF6R14, MF6R07, MF6R10, MF6R15, MF6R06, MF6R17, MF6R08, MF6R13

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InterferenceCheckSample

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

LaboratoryControlSample

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

MatrixSpikes

Method - Metals by ICP-MS

Test Name: EXES-1355
Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R within 30 - 74% and Post-digestion spike analyte %R greater than or equal to 75%. Detects are qualified as J. Nondetects are qualified as UJ.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Antimony	MF6R05A

Test Name: EXES-592
Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R within 30 - 74% and Post-digestion spike analyte %R greater than or equal to 75%. Detects are qualified as J. Nondetects are qualified as UJ.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Manganese	MF6R05A
Zinc	MF6R05A

Test Name: EXES-594
Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R greater than 125% and Post-digestion spike analyte %R less than or euqal to 125%. Detects are qualified as J. Nondetects are not qualified.

Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Selenium	MF6R05A

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SerialDilution

Method - Metals by ICP-MS

Test Name: EXES-1334
Defect Message: The following samples are associated to the Serial Dilution sample with analyte absolute value %D >10% and the original sample result is > 50xMDL. Detects are qualified as estimated J. Non-detects are qualified estimated UJ.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17

Zinc	MF6R05L

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InternalStandard

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

DetectionLimit

Method - Metals by ICP-AES

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R05, MF6R05L, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R16, MF6R17

Calcium	MF6R16, MF6R08, MF6R09, MF6R13, MF6R05L
Magnesium	MF6R08, MF6R05L
Potassium	MF6R05L
Sodium	MF6R14, MF6R16, MF6R10, MF6R07, MF6R05D, MF6R11, MF6R09, MF6R06, MF6R17, MF6R05, MF6R13, MF6R12, MF6R08

Method - Metals by ICP-MS

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R05, MF6R05L, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17, PBS01

Antimony	MF6R15
Arsenic	MF6R05L
Barium	PBS01
Beryllium	MF6R16, MF6R10, MF6R05D, MF6R07, MF6R14, MF6R17, MF6R09, MF6R05, MF6R12, MF6R08, MF6R13, MF6R06, MF6R11, MF6R05L
Cadmium	MF6R06, MF6R05D, MF6R05, MF6R05L, MF6R09
Manganese	PBS01
Selenium	MF6R06, MF6R10, MF6R05D, MF6R14, MF6R09, MF6R11, MF6R08, MF6R05L, MF6R07, MF6R16, MF6R17, MF6R05, MF6R15
Silver	MF6R11, MF6R10, MF6R16, MF6R17, MF6R05, MF6R05D, MF6R13, MF6R06, MF6R14, MF6R05L, MF6R12, MF6R15, MF6R09
Thallium	MF6R17, MF6R05D, MF6R05, MF6R12, MF6R14, MF6R05L, MF6R11, MF6R07, MF6R06, MF6R16, MF6R09, MF6R10, MF6R15
Vanadium	MF6R05L

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 12:03:43

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Method - Mercury by Cold Vapor

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R05, MF6R14, MF6R17

Mercury	MF6R05, MF6R17, MF6R14, MF6R05D

Method - Cyanide

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R05, MF6R06, MF6R07, MF6R08, MF6R09, MF6R10, MF6R11, MF6R12, MF6R13, MF6R14, MF6R15, MF6R16, MF6R17, PBS01

Cyanide	MF6R05D, MF6R07, MF6R05, MF6R11, MF6R12, MF6R09, MF6R16, MF6R14, MF6R13, MF6R15, MF6R10, MF6R06, MF6R17, MF6R08, PBS01

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Duplicates

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R05	Contract: EPW14029	Submission Group Id: 30113599
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SampleAnalysis

NONE FOUND

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 12, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: MF6R18

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 11, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1602-212-0009
TDF No.:	6-16-114A
ESAT File No.:	I-0678

Attached is the data review summary for Case # 45671
SDG # MF6R18
Site Wilcox Oil

015958

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY BON	NO. OF SAMPLES 10
CONTRACT# EP-W-14-029	MATRIX Soil
SDG# MF6R18	REVIEWER (IF NOT ESB) ESAT
SOW# ISM02.3/MA 2542.1	REVIEWER'S NAME Linda Hoffman
SF# 303DD2GG	COMPLETION DATE January 11, 2016

SAMPLE NO.					
	MF6R18	MF6R23	MF6R27		
	MF6R20	MF6R24	MF6R28		
	MF6R21	MF6R25			
	MF6R22	MF6R26			

DATA ASSESSMENT SUMMARY

	ICP-AES	ICP-MS	HG	CN
1. HOLDING TIMES	O	O	O	O
2. CALIBRATIONS	O	O	O	O
3. BLANKS	O	O	O	O
4. MATRIX SPIKES	O	O	O	O
5. DUPLICATE ANALYSIS	O	M	O	O
6. ICP QC	O	O	N/A	N/A
7. LCS	O	O	N/A	N/A
8. SAMPLE VERIFICATION	O	O	O	O
9. OTHER QC	N/A	N/A	N/A	N/A
10. OVERALL ASSESSMENT	O	M	O	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: The laboratory analyzed the thallium LCS at 10X the MA 2542.1 CRQL instead of 2X.

AREAS OF CONCERN: **ICP-MS** The laboratory duplicate difference for lead exceeded the expanded QC limit for soils.

015959

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** MF6R18 **SITE** Wilcox Oil **LAB** BON

COMMENTS: This SDG consisted of ten soil samples for total metals (by ICP-AES and ICP-MS), mercury, and cyanide analyses following SOW ISM02.3. The samples were also subject to Modified Analysis Request 2542.1 (MA 2542.1), which requested a lower CRQL for thallium. The sampler designated sample MF6R25 for QC analyses.

The SOW requires that the soil sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW and MA 2542.1. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

The target analytes of concern with the MA 2542.1 CRQLs in parentheses are antimony (1.0 mg/kg), arsenic (0.5 mg/kg), cadmium (0.5 mg/kg), chromium (1.0 mg/kg), cobalt (0.5 mg/kg), selenium (2.5 mg/kg), and thallium (0.25 mg/kg). The analytes of concern reported at concentrations above the MA 2542.1 CRQLs were arsenic, chromium, and cobalt in all samples. The laboratory reanalyzed samples MF6R21 and MF6R22 at the required 2X dilution because the %RIs for IS Sc-45 were above the QC limit in the undiluted analyses of these two samples. The dilutions had acceptable %RIs for IS Sc-45, so the laboratory reported the results associated with IS Sc-45 from the diluted analyses. The laboratory also diluted (up to 15X) and reanalyzed samples MF6R22, MF6R24, and MF6R28 because of high copper or lead concentrations.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: The lead results for all samples were qualified because of a problem with inconsistent laboratory duplicate results. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF and reporting issues (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

015960

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

015961

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
QCCOD:	Sample QC Code
SMPQUAL:	Sample Qualifier
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
PRPDATE:	Sample Preparation Date
LRDATE:	Laboratory Receipt Date
LEVEL:	Sample Level
PERSOLD:	Sample Percent Solids
SMPWTVL:	Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL:	Final Sample Volume
METHOD:	Method of Analysis
STATLOC:	Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

015962

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U	Not detected at reported quantitation limit.
L	Reported concentration is between the MDL and the CRQL.
J	Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
R	Result is unusable.
F	A possibility of a false negative exists.
UC	Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
+	High biased. Actual concentration may be lower than the concentration reported.
-	Low biased. Actual concentration may be higher than the concentration reported.
W	The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

015963

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-38-2	Arsenic	2.3		mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-39-3	Barium	27.8		mg/kg	5.8	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-47-3	Chromium	8.2		mg/kg	1.2	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-48-4	Cobalt	2.2		mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-50-8	Copper	5.0		mg/kg	1.2	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7439-92-1	Lead	3.8	J	mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7439-96-5	Manganese	110		mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-02-0	Nickel	5.1		mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/23/2015	11:27:26	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-62-2	Vanadium	13.7		mg/kg	2.9	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	13:43:54	7440-66-6	Zinc	6.2		mg/kg	1.2	12/09/2015	12/16/2015	12/12/2015	86.9	1	500	MS	P-03-SAND
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-36-0	Antimony	1.1	U	mg/kg	1.1	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-38-2	Arsenic	5.4		mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-39-3	Barium	40.5		mg/kg	5.7	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-41-7	Beryllium	0.57	U	mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-43-9	Cadmium	0.57	U	mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-47-3	Chromium	12.8		mg/kg	1.1	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-48-4	Cobalt	8.0		mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-50-8	Copper	13.1		mg/kg	1.1	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7439-92-1	Lead	56.2	J	mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7439-96-5	Manganese	109		mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-02-0	Nickel	18.5		mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/23/2015	11:30:15	7440-22-4	Silver	0.57	U	mg/kg	0.57	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-62-2	Vanadium	28.7		mg/kg	2.9	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	13:47:56	7440-66-6	Zinc	7.1		mg/kg	1.1	12/10/2015	12/16/2015	12/12/2015	87.3	1	500	MS	WIL-AA-10
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-38-2	Arsenic	3.5		mg/kg	0.61	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-39-3	Barium	72.5		mg/kg	6.1	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-41-7	Beryllium	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-43-9	Cadmium	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-47-3	Chromium	20.4		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-48-4	Cobalt	6.6		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-50-8	Copper	12.5		mg/kg	2.4	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7439-92-1	Lead	30.2	J	mg/kg	0.61	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7439-96-5	Manganese	158		mg/kg	0.61	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-02-0	Nickel	16.7		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7782-49-2	Selenium	3.0	U	mg/kg	3.0	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-22-4	Silver	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-28-0	Thallium	0.30	U	mg/kg	0.30	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	13:54:39	7440-62-2	Vanadium	24.3		mg/kg	3.0	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/23/2015	13:44:15	7440-66-6	Zinc	28.2		mg/kg	2.4	12/10/2015	12/16/2015	12/12/2015	82.5	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-38-2	Arsenic	2.1		mg/kg	0.59	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-39-3	Barium	90.7		mg/kg	5.9	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-41-7	Beryllium	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-43-9	Cadmium	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-47-3	Chromium	15.1		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-48-4	Cobalt	3.9		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-50-8	Copper	12.4		mg/kg	2.4	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:52:15	7439-92-1	Lead	7080	J	mg/kg	8.8	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7439-96-5	Manganese	123		mg/kg	0.59	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-02-0	Nickel	11.2		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-22-4	Silver	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	13:58:41	7440-62-2	Vanadium	20.9		mg/kg	2.9	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/23/2015	13:48:15	7440-66-6	Zinc	16.0		mg/kg	2.4	12/10/2015	12/16/2015	12/12/2015	84.8	1	500	MS	WIL-AA-11

015964

45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-38-2	Arsenic	1.4		mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-39-3	Barium	29.0		mg/kg	6.0	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-41-7	Beryllium	0.60	U	mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-43-9	Cadmium	0.60	U	mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-47-3	Chromium	5.8		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-48-4	Cobalt	1.5		mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-50-8	Copper	3.9		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7439-92-1	Lead	22.4	J	mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7439-96-5	Manganese	10.5		mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-02-0	Nickel	2.1		mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7782-49-2	Selenium	3.0	U	mg/kg	3.0	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/23/2015	11:39:43	7440-22-4	Silver	0.60	U	mg/kg	0.60	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-28-0	Thallium	0.30	U	mg/kg	0.30	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-62-2	Vanadium	6.0		mg/kg	3.0	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	14:02:45	7440-66-6	Zinc	3.9		mg/kg	1.2	12/10/2015	12/16/2015	12/12/2015	83.8	1	500	MS	WIL-41
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-36-0	Antimony	1.3	U	mg/kg	1.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-38-2	Arsenic	1.5		mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-39-3	Barium	85.3		mg/kg	6.5	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-41-7	Beryllium	0.65	U	mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-43-9	Cadmium	0.65	U	mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-47-3	Chromium	7.9		mg/kg	1.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-48-4	Cobalt	6.1		mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-50-8	Copper	9.2		mg/kg	1.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/23/2015	13:56:15	7439-92-1	Lead	6780	J	mg/kg	9.8	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7439-96-5	Manganese	361		mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-02-0	Nickel	6.4		mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7782-49-2	Selenium	3.3	U	mg/kg	3.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/23/2015	11:42:51	7440-22-4	Silver	0.65	U	mg/kg	0.65	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-28-0	Thallium	0.33	U	mg/kg	0.33	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-62-2	Vanadium	15.3		mg/kg	3.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	14:06:48	7440-66-6	Zinc	13.2		mg/kg	1.3	12/11/2015	12/16/2015	12/12/2015	76.4	1	500	MS	TF-34-01
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-38-2	Arsenic	2.5		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-39-3	Barium	32.7		mg/kg	5.9	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-41-7	Beryllium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-43-9	Cadmium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-47-3	Chromium	7.7		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-48-4	Cobalt	3.4		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-50-8	Copper	5.7		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7439-92-1	Lead	11.0	J	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7439-96-5	Manganese	133		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-02-0	Nickel	3.2		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/23/2015	11:45:59	7440-22-4	Silver	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-62-2	Vanadium	15.4		mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	14:10:54	7440-66-6	Zinc	4.7		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.3	1	500	MS	LOR-18
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-38-2	Arsenic	2.9		mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-39-3	Barium	35.6		mg/kg	5.8	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-41-7	Beryllium	0.58	U	mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-43-9	Cadmium	0.58	U	mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-47-3	Chromium	8.1		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-48-4	Cobalt	3.0		mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-50-8	Copper	5.0		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7439-92-1	Lead	5.2	J	mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7439-96-5	Manganese	90.5		mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-02-0	Nickel	3.3		mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/23/2015	11:58:34	7440-22-4	Silver	0.58	U	mg/kg	0.58	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-62-2	Vanadium	14.4		mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	14:27:09	7440-66-6	Zinc	5.6		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	86.6	1	500	MS	FD-03
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A

45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-38-2	Arsenic	1.3		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-39-3	Barium	11.5		mg/kg	5.9	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-41-7	Beryllium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-43-9	Cadmium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-47-3	Chromium	3.0		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-48-4	Cobalt	1.9		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-50-8	Copper	4.0		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7439-92-1	Lead	1.4	J	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7439-96-5	Manganese	8.6		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-02-0	Nickel	2.4		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/23/2015	12:01:44	7440-22-4	Silver	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-62-2	Vanadium	5.3		mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	14:31:10	7440-66-6	Zinc	4.1		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.2	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-36-0	Antimony	1.2	U	mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-38-2	Arsenic	2.5		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-39-3	Barium	36.1		mg/kg	5.9	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-41-7	Beryllium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-43-9	Cadmium	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-47-3	Chromium	9.9		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-48-4	Cobalt	2.9		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/23/2015	14:00:16	7440-50-8	Copper	1400		mg/kg	3.5	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7439-92-1	Lead	4.7	J	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7439-96-5	Manganese	76.8		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-02-0	Nickel	6.7		mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7782-49-2	Selenium	2.9	U	mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/23/2015	12:04:53	7440-22-4	Silver	0.59	U	mg/kg	0.59	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-28-0	Thallium	0.29	U	mg/kg	0.29	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-62-2	Vanadium	17.2		mg/kg	2.9	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	14:35:13	7440-66-6	Zinc	131		mg/kg	1.2	12/11/2015	12/16/2015	12/12/2015	85.1	1	500	MS	LOR-25A
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7429-90-5	Aluminum	10400		mg/kg	23.0	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7440-70-2	Calcium	1030		mg/kg	575	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7439-89-6	Iron	10600		mg/kg	11.5	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7439-95-4	Magnesium	1080		mg/kg	575	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7440-09-7	Potassium	930		mg/kg	575	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/22/2015	15:33:19	7440-23-5	Sodium	1050		mg/kg	575	12/09/2015	12/16/2015	12/12/2015	86.9	1	100	P	P-03-SAND
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7429-90-5	Aluminum	9330		mg/kg	22.9	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7440-70-2	Calcium	911		mg/kg	573	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7439-89-6	Iron	20300		mg/kg	11.5	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7439-95-4	Magnesium	1740		mg/kg	573	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7440-09-7	Potassium	2390		mg/kg	573	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/22/2015	15:37:48	7440-23-5	Sodium	4900		mg/kg	573	12/10/2015	12/16/2015	12/12/2015	87.3	1	100	P	WIL-AA-10
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7429-90-5	Aluminum	23300		mg/kg	24.2	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7440-70-2	Calcium	1480		mg/kg	606	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7439-89-6	Iron	23800		mg/kg	12.1	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7439-95-4	Magnesium	2730		mg/kg	606	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7440-09-7	Potassium	2910		mg/kg	606	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/22/2015	15:42:09	7440-23-5	Sodium	8690		mg/kg	606	12/10/2015	12/16/2015	12/12/2015	82.5	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7429-90-5	Aluminum	17400		mg/kg	23.6	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7440-70-2	Calcium	1550		mg/kg	590	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7439-89-6	Iron	23500		mg/kg	11.8	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7439-95-4	Magnesium	1630		mg/kg	590	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7440-09-7	Potassium	1720		mg/kg	590	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/22/2015	15:46:31	7440-23-5	Sodium	7800		mg/kg	590	12/10/2015	12/16/2015	12/12/2015	84.8	1	100	P	WIL-AA-11
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7429-90-5	Aluminum	3870		mg/kg	23.9	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7440-70-2	Calcium	597	U	mg/kg	597	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7439-89-6	Iron	4360		mg/kg	11.9	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7439-95-4	Magnesium	597	U	mg/kg	597	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7440-09-7	Potassium	622		mg/kg	597	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/22/2015	15:50:53	7440-23-5	Sodium	597	U	mg/kg	597	12/10/2015	12/16/2015	12/12/2015	83.8	1	100	P	WIL-41
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7429-90-5	Aluminum	7740		mg/kg	26.2	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7440-70-2	Calcium	1970		mg/kg	654	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7439-89-6	Iron	9450		mg/kg	13.1	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7439-95-4	Magnesium	753		mg/kg	654	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01

45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7440-09-7	Potassium	1260		mg/kg	654	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/22/2015	15:55:23	7440-23-5	Sodium	1820		mg/kg	654	12/11/2015	12/16/2015	12/12/2015	76.4	1	100	P	TF-34-01
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7429-90-5	Aluminum	8990		mg/kg	23.4	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7440-70-2	Calcium	586	U	mg/kg	586	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7439-89-6	Iron	9500		mg/kg	11.7	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7439-95-4	Magnesium	586	U	mg/kg	586	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7440-09-7	Potassium	922		mg/kg	586	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/22/2015	15:59:48	7440-23-5	Sodium	586	U	mg/kg	586	12/11/2015	12/16/2015	12/12/2015	85.3	1	100	P	LOR-18
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7429-90-5	Aluminum	10100		mg/kg	23.1	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7440-70-2	Calcium	577	U	mg/kg	577	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7439-89-6	Iron	9450		mg/kg	11.5	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7439-95-4	Magnesium	660		mg/kg	577	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7440-09-7	Potassium	949		mg/kg	577	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/22/2015	16:13:11	7440-23-5	Sodium	577	U	mg/kg	577	12/11/2015	12/16/2015	12/12/2015	86.6	1	100	P	FD-03
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7429-90-5	Aluminum	5330		mg/kg	23.5	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7440-70-2	Calcium	587	U	mg/kg	587	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7439-89-6	Iron	4220		mg/kg	11.7	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7439-95-4	Magnesium	587	U	mg/kg	587	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7440-09-7	Potassium	596		mg/kg	587	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/22/2015	16:17:38	7440-23-5	Sodium	587	U	mg/kg	587	12/11/2015	12/16/2015	12/12/2015	85.2	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7429-90-5	Aluminum	12700		mg/kg	23.5	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7440-70-2	Calcium	1980		mg/kg	588	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7439-89-6	Iron	9800		mg/kg	11.8	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7439-95-4	Magnesium	946		mg/kg	588	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7440-09-7	Potassium	1610		mg/kg	588	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/22/2015	16:22:06	7440-23-5	Sodium	588	U	mg/kg	588	12/11/2015	12/16/2015	12/12/2015	85.1	1	100	P	LOR-25A
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/15/2015	14:44:37	7439-97-6	Mercury	0.0075	LJ	mg/kg	0.12	12/09/2015	12/15/2015	12/12/2015	86.9	0.5	100	CV	P-03-SAND
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/15/2015	14:47:09	7439-97-6	Mercury	0.012	LJ	mg/kg	0.11	12/10/2015	12/15/2015	12/12/2015	87.3	0.5	100	CV	WIL-AA-10
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/15/2015	14:49:41	7439-97-6	Mercury	0.023	LJ	mg/kg	0.12	12/10/2015	12/15/2015	12/12/2015	82.5	0.5	100	CV	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/15/2015	14:52:13	7439-97-6	Mercury	0.028	LJ	mg/kg	0.12	12/10/2015	12/15/2015	12/12/2015	84.8	0.5	100	CV	WIL-AA-11
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/15/2015	14:54:44	7439-97-6	Mercury	0.0082	LJ	mg/kg	0.12	12/10/2015	12/15/2015	12/12/2015	83.8	0.5	100	CV	WIL-41
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/15/2015	14:57:15	7439-97-6	Mercury	0.017	LJ	mg/kg	0.13	12/11/2015	12/15/2015	12/12/2015	76.4	0.5	100	CV	TF-34-01
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/15/2015	14:59:46	7439-97-6	Mercury	0.0076	LJ	mg/kg	0.12	12/11/2015	12/15/2015	12/12/2015	85.3	0.5	100	CV	LOR-18
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/15/2015	15:02:18	7439-97-6	Mercury	0.0082	LJ	mg/kg	0.12	12/11/2015	12/15/2015	12/12/2015	86.6	0.5	100	CV	FD-03
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/15/2015	15:04:50	7439-97-6	Mercury	0.0051	LJ	mg/kg	0.12	12/11/2015	12/15/2015	12/12/2015	85.2	0.5	100	CV	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/15/2015	15:07:22	7439-97-6	Mercury	0.011	LJ	mg/kg	0.12	12/11/2015	12/15/2015	12/12/2015	85.1	0.5	100	CV	LOR-25A
45671	MF6R18	MF6R18	5120172-01	S	Field_Sample	12/15/2015	15:52:51	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/09/2015	12/15/2015	12/12/2015	86.9	1	50	AS	P-03-SAND
45671	MF6R18	MF6R20	5120172-02	S	Field_Sample	12/15/2015	15:53:41	57-12-5	Cyanide	0.57	U	mg/kg	0.57	12/10/2015	12/15/2015	12/12/2015	87.3	1	50	AS	WIL-AA-10
45671	MF6R18	MF6R21	5120172-03	S	Field_Sample	12/15/2015	15:54:31	57-12-5	Cyanide	0.61	U	mg/kg	0.61	12/10/2015	12/15/2015	12/12/2015	82.5	1	50	AS	WIL-AA-11
45671	MF6R18	MF6R22	5120172-04	S	Field_Sample	12/15/2015	15:55:21	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/10/2015	12/15/2015	12/12/2015	84.8	1	50	AS	WIL-AA-11
45671	MF6R18	MF6R23	5120172-05	S	Field_Sample	12/15/2015	15:56:11	57-12-5	Cyanide	0.60	U	mg/kg	0.60	12/10/2015	12/15/2015	12/12/2015	83.8	1	50	AS	WIL-41
45671	MF6R18	MF6R24	5120172-06	S	Field_Sample	12/15/2015	15:57:01	57-12-5	Cyanide	0.65	U	mg/kg	0.65	12/11/2015	12/15/2015	12/12/2015	76.4	1	50	AS	TF-34-01
45671	MF6R18	MF6R25	5120172-07	S	Field_Sample	12/15/2015	15:57:51	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/11/2015	12/15/2015	12/12/2015	85.3	1	50	AS	LOR-18
45671	MF6R18	MF6R26	5120172-08	S	Field_Sample	12/15/2015	16:00:21	57-12-5	Cyanide	0.58	U	mg/kg	0.58	12/11/2015	12/15/2015	12/12/2015	86.6	1	50	AS	FD-03
45671	MF6R18	MF6R27	5120172-09	S	Field_Sample	12/15/2015	16:01:11	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/11/2015	12/15/2015	12/12/2015	85.2	1	50	AS	LOR-25A
45671	MF6R18	MF6R28	5120172-10	S	Field_Sample	12/15/2015	16:02:01	57-12-5	Cyanide	0.59	U	mg/kg	0.59	12/11/2015	12/15/2015	12/12/2015	85.1	1	50	AS	LOR-25A

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. MF6R18 SDG Nos. To Follow Mod. Ref No. 2542.1 Date Rec. 12/30/15

EPA Lab ID: BON

Lab Location: Hattiesburg, MS

Region: 6 Audit No.: 45671/MF6R18

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

14./15. Sample tags were not required for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: L. Hoffman / ESAT Data Reviewer Date 12/31/15

Audited by: Date

Signature Printed Name/Title

DC-2__

015968

In Reference To: (I-0678)
Case No.: 45671 SDG(s): MF6R18

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	BON
Lab Contact:	Chris Bonner
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Linda Hoffman - ESAT

In reference to data for the following fractions:

CSF Issue ICP-MS

Summary of Questions/Issues:

CSF Issue

On Form DC-2-1 (p. 6), corrections were made to Items 12 and 14, but these corrections were not initialed and dated. Please add the contract-required information (ISM02.3, p. E-17, sec. 5.6.7) and resubmit this page with proper pagination.

ICP-MS

1. The non-blank standard at or below the MA 2542.1 CRQL for thallium was not reported on Form 15 as required by Section II of MA 2542.1. Please make the necessary corrections and resubmissions with the pages properly paginated.

2. The Form 14s associated with the diluted analyses on the Form 12 on page 138 were not included in the data package. Please resubmit these contract-required forms with the pages properly paginated.

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item **within 5 business days (ISM02.3, p. B-9, sec. 2.2.1)** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

015969

USEPA CLP COC (LAB COPY)
DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220330

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #:

EPW14029
MF6R18

No: 6-121115-162521-0013
Lab: Bonner Analytical Testing Company - BON
Lab Contact: Chris Bonner
Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0019	MF6R18	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1139 (4 C) (1)	P-03-SAND	12/09/2015 12:10	
277-0021	MF6R20	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1153 (4 C) (1)	WIL-AA-10	12/10/2015 12:50	
277-0022	MF6R21	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1160 (4 C) (1)	WIL-AA-11	12/10/2015 13:55	
277-0023	MF6R22	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1167 (4 C) (1)	WIL-AA-11	12/10/2015 13:55	
277-0024	MF6R23	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1174 (4 C) (1)	WIL-41	12/10/2015 10:50	
277-0025	MF6R24	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1181 (4 C) (1)	TF-34-01	12/11/2015 10:05	
277-0026	MF6R25	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1188 (4 C) (1)	LOR-18	12/11/2015 11:20	
277-0027	MF6R26	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1195 (4 C) (1)	FD-03	12/11/2015 11:55	
277-0028	MF6R27	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1202 (4 C) (1)	LOR-25A	12/11/2015 13:55	
277-0029	MF6R28	Soil/ SERAS	Discrete Interval	TMs+Hg+Cn(21)	1209 (4 C) (1)	LOR-25A	12/11/2015 14:45	

Page 13 of 13

Sample(s) to be used for Lab QC: 277-0026 Tag 1188 - Special Instructions: ICP-AES for Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium.

ICP-MS for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMs+Hg+Cn=TotalMetals ICP-AES +Hg+Cn by ISM02.3, ICP-MS by ISM02.3/MA#2542.1

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis	LMSERAS	12/11/15 15:45	Bonner	12-12-15 1033	good

ADDENDUM

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

HoldingTimes_Preservation

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

TUNE

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InitialCalibration

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

ContinuingCalibrationVerification

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Blanks

Method - Metals by ICP-AES

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R23, MF6R25, MF6R26, MF6R27, MF6R28

Calcium	MF6R26, MF6R23, MF6R27, MF6R25
Magnesium	MF6R25, MF6R23, MF6R27
Sodium	MF6R23, MF6R27, MF6R26, MF6R25, MF6R28

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R24, MF6R26, MF6R18, MF6R25, MF6R28, MF6R23, MF6R22, MF6R21, MF6R20, MF6R27
Calcium	MF6R20, MF6R21, MF6R28, MF6R22, MF6R24, MF6R18
Iron	MF6R24, MF6R20, MF6R23, MF6R26, MF6R27, MF6R21, MF6R22, MF6R25, MF6R18, MF6R28
Magnesium	MF6R20, MF6R18, MF6R21, MF6R28, MF6R24, MF6R22, MF6R26
Potassium	MF6R20, MF6R26, MF6R28, MF6R18, MF6R23, MF6R27, MF6R21, MF6R22, MF6R24, MF6R25
Sodium	MF6R22, MF6R20, MF6R24, MF6R21, MF6R18

Test Name: EXES-479
Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R24, MF6R26, MF6R18, MF6R25, MF6R28, MF6R23, MF6R21, MF6R22, MF6R20, MF6R27
Calcium	MF6R21, MF6R22, MF6R20, MF6R28, MF6R24, MF6R18
Iron	MF6R20, MF6R24, MF6R23, MF6R27, MF6R26, MF6R21, MF6R22, MF6R25, MF6R18, MF6R28
Magnesium	MF6R20, MF6R18, MF6R21, MF6R28, MF6R24, MF6R22, MF6R26
Potassium	MF6R18, MF6R20, MF6R28, MF6R26, MF6R23, MF6R27, MF6R21, MF6R22, MF6R24, MF6R25
Sodium	MF6R22, MF6R20, MF6R24, MF6R21, MF6R18

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-480
Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R25, MF6R21, MF6R18, MF6R24, MF6R28, MF6R26, MF6R23, MF6R22, MF6R27, MF6R20
Calcium	MF6R21, MF6R24, MF6R20, MF6R25, MF6R23, MF6R26, MF6R28, MF6R22, MF6R18, MF6R27
Magnesium	MF6R25, MF6R20, MF6R18, MF6R21, MF6R28, MF6R24, MF6R22, MF6R23, MF6R26, MF6R27
Potassium	MF6R26, MF6R18, MF6R23, MF6R27, MF6R21, MF6R25, MF6R28, MF6R24, MF6R22, MF6R20
Sodium	MF6R20, MF6R21, MF6R18, MF6R22, MF6R23, MF6R25, MF6R24, MF6R27, MF6R26, MF6R28

Test Name: EXES-481
Defect Message: The following samples are associated with ICB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R25, MF6R22, MF6R24, MF6R28, MF6R26, MF6R23, MF6R21, MF6R27, MF6R20, MF6R18
Calcium	MF6R26, MF6R24, MF6R22, MF6R21, MF6R23, MF6R20, MF6R27, MF6R28, MF6R18, MF6R25
Magnesium	MF6R20, MF6R18, MF6R21, MF6R28, MF6R24, MF6R22, MF6R23, MF6R26, MF6R27, MF6R25
Potassium	MF6R18, MF6R20, MF6R22, MF6R26, MF6R23, MF6R27, MF6R21, MF6R25, MF6R28, MF6R24
Sodium	MF6R26, MF6R27, MF6R18, MF6R20, MF6R25, MF6R23, MF6R22, MF6R28, MF6R21, MF6R24

Test Name: EXES-508
Defect Message: The following samples have analyte results greater than CRQLs. The associated PB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R26, MF6R27, MF6R22, MF6R21, MF6R28, MF6R24, MF6R18, MF6R23, MF6R25, MF6R20
Magnesium	MF6R22, MF6R18, MF6R26, MF6R24, MF6R28, MF6R21, MF6R20
Potassium	MF6R23, MF6R27, MF6R21, MF6R25, MF6R22, MF6R20, MF6R18, MF6R26, MF6R28, MF6R24

Test Name: EXES-549
Defect Message: The following samples are associated with PB that has analyte results less than or equal to (-MDL) but greater than or equal to (-CRQL). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Aluminum	MF6R27, MF6R22, MF6R21, MF6R23, MF6R18, MF6R28, MF6R25, MF6R20, MF6R26, MF6R24
Magnesium	MF6R18, MF6R21, MF6R28, MF6R24, MF6R26, MF6R23, MF6R22, MF6R27, MF6R25, MF6R20

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-549
Defect Message: The following samples are associated with PB that has analyte results less than or equal to (-MDL) but greater than or equal to (-CRQL). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Potassium	MF6R20, MF6R18, MF6R22, MF6R23, MF6R28, MF6R25, MF6R27, MF6R21, MF6R26, MF6R24

Method - Metals by ICP-MS

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Beryllium	MF6R21, MF6R22
Silver	MF6R20, MF6R18, MF6R26, MF6R28, MF6R22, MF6R24, MF6R23, MF6R21, MF6R27, MF6R25

Test Name: EXES-476
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Silver	MF6R27, MF6R21, MF6R20, MF6R18, MF6R28, MF6R25, MF6R22, MF6R24, MF6R23, MF6R26

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Arsenic	MF6R28, MF6R20, MF6R21, MF6R18, MF6R23, MF6R22, MF6R26, MF6R25, MF6R27, MF6R24
Barium	MF6R22, MF6R24, MF6R28, MF6R26, MF6R23, MF6R27, MF6R20, MF6R21, MF6R25, MF6R18
Chromium	MF6R22, MF6R28, MF6R23, MF6R24, MF6R21, MF6R26, MF6R27, MF6R20, MF6R18, MF6R25
Cobalt	MF6R25, MF6R28, MF6R22, MF6R18, MF6R21, MF6R20, MF6R26, MF6R24, MF6R27, MF6R23
Copper	MF6R21, MF6R27, MF6R20, MF6R22, MF6R24, MF6R26, MF6R28, MF6R23, MF6R25, MF6R18
Lead	MF6R20, MF6R22, MF6R24, MF6R27, MF6R21, MF6R23, MF6R25, MF6R26, MF6R28, MF6R18
Manganese	MF6R24, MF6R26, MF6R27, MF6R25, MF6R21, MF6R28, MF6R18, MF6R22, MF6R23, MF6R20
Nickel	MF6R18, MF6R24, MF6R26, MF6R22, MF6R28, MF6R20, MF6R23, MF6R21, MF6R25, MF6R27
Vanadium	MF6R18, MF6R28, MF6R22, MF6R24, MF6R23, MF6R20, MF6R21, MF6R26, MF6R27, MF6R25

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Zinc	MF6R25, MF6R20, MF6R21, MF6R28, MF6R27, MF6R24, MF6R26, MF6R18, MF6R22, MF6R23

Test Name: EXES-479
Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Arsenic	MF6R28, MF6R20, MF6R21, MF6R18, MF6R23, MF6R22, MF6R26, MF6R25, MF6R27, MF6R24
Barium	MF6R22, MF6R24, MF6R28, MF6R26, MF6R23, MF6R27, MF6R20, MF6R21, MF6R25, MF6R18
Chromium	MF6R22, MF6R28, MF6R23, MF6R24, MF6R21, MF6R26, MF6R27, MF6R20, MF6R18, MF6R25
Cobalt	MF6R25, MF6R28, MF6R22, MF6R18, MF6R21, MF6R20, MF6R26, MF6R24, MF6R27, MF6R23
Copper	MF6R21, MF6R27, MF6R20, MF6R22, MF6R24, MF6R26, MF6R28, MF6R23, MF6R25, MF6R18
Lead	MF6R20, MF6R22, MF6R24, MF6R27, MF6R21, MF6R23, MF6R25, MF6R26, MF6R28, MF6R18
Manganese	MF6R26, MF6R24, MF6R27, MF6R25, MF6R21, MF6R28, MF6R18, MF6R22, MF6R23, MF6R20
Nickel	MF6R24, MF6R18, MF6R26, MF6R28, MF6R22, MF6R20, MF6R23, MF6R21, MF6R25, MF6R27
Vanadium	MF6R18, MF6R28, MF6R22, MF6R24, MF6R23, MF6R20, MF6R21, MF6R26, MF6R27, MF6R25
Zinc	MF6R25, MF6R20, MF6R21, MF6R28, MF6R24, MF6R27, MF6R26, MF6R18, MF6R22, MF6R23

Test Name: EXES-483
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB has analyte results greater than CRQL. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R21

Thallium	MF6R21, MF6R18

Test Name: EXES-508
Defect Message: The following samples have analyte results greater than CRQLs. The associated PB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Barium	MF6R22, MF6R28, MF6R24, MF6R26, MF6R23, MF6R27, MF6R20, MF6R21, MF6R25, MF6R18

Method - Cyanide

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R20, MF6R22, MF6R27

Cyanide	MF6R20, MF6R18, MF6R22, MF6R27

Test Name: EXES-476
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R20, MF6R22, MF6R27

Cyanide	MF6R20, MF6R18, MF6R22, MF6R27

Test Name: EXES-477
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R18, MF6R20, MF6R22, MF6R27

Cyanide	MF6R20, MF6R18, MF6R22, MF6R27

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InterferenceCheckSample

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

LaboratoryControlSample

NONE FOUND

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

MatrixSpikes

Method - Metals by ICP-MS

Test Name: EXES-594
Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R greater than 125% and Post-digestion spike analyte %R less than or euqal to 125%. Detects are qualified as J. Nondetects are not qualified.

Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Selenium	MF6R25A

Method - Cyanide

Test Name: EXES-1355
Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R within 30 - 74% and Post-digestion spike analyte %R greater than or equal to 75%. Detects are qualified as J. Nondetects are qualified as UJ.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Cyanide	MF6R25A

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SerialDilution

Method - Metals by ICP-MS

Test Name: EXES-1334
Defect Message: The following samples are associated to the Serial Dilution sample with analyte absolute value %D >10% and the original sample result is > 50xMDL. Detects are qualified as estimated J. Non-detects are qualified estimated UJ.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28

Cobalt	MF6R25L
Zinc	MF6R25L

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InternalStandard

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

DetectionLimit

Method - Metals by ICP-AES

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R23, MF6R25, MF6R25L, MF6R26, MF6R27, MF6R28

Calcium	MF6R25D, MF6R27, MF6R25, MF6R23, MF6R25L, MF6R26
Magnesium	MF6R25L, MF6R25, MF6R27, MF6R23
Potassium	MF6R25L
Sodium	MF6R26, MF6R25D, MF6R28, MF6R23, MF6R27, MF6R25

Method - Metals by ICP-MS

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R25L, MF6R26, MF6R27, MF6R28, PBS01

Antimony	MF6R23
Arsenic	MF6R25L
Barium	PBS01
Beryllium	MF6R25D, MF6R23, MF6R20, MF6R25L, MF6R24, MF6R27, MF6R21, MF6R22, MF6R26, MF6R28, MF6R18, MF6R25
Cadmium	MF6R24, MF6R23, MF6R25L, MF6R28
Selenium	MF6R22, MF6R24, MF6R28, MF6R25, MF6R20, MF6R21
Silver	MF6R20, MF6R26, MF6R25D, MF6R18, MF6R28, MF6R22, MF6R27, MF6R24, MF6R23, MF6R25L, MF6R21, MF6R25
Thallium	MF6R21, PBS01, MF6R18
Zinc	MF6R25L

Method - Mercury by Cold Vapor

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-790 Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J. Associated Samples: MF6R18, MF6R20, MF6R21, MF6R22, MF6R23, MF6R24, MF6R25, MF6R26, MF6R27, MF6R28	
Mercury	MF6R27, MF6R24, MF6R25, MF6R28, MF6R18, MF6R25D, MF6R22, MF6R26, MF6R23, ME6R21, MF6R20

Method - Cyanide

Test Name: EXES-790 Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J. Associated Samples: MF6R18, MF6R20, MF6R22, MF6R27, PBS01	
Cyanide	MF6R25D, MF6R20, MF6R18, PBS01, MF6R22, MF6R27

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Duplicates

Method - Metals by ICP-MS

Test Name: EXES-601
Defect Message: The following samples are associated with a Duplicate sample that has analyte results are greater than or equal to 5xCRQL in both Duplicate and original sanmples and RPD is greater than 20. Detects are qualified as J. Nondetects are qualified as UJ.

Associated Samples: MF6R25D

Lead	MF6R25D

Data Validation Report

Data Review Results

Thu, 31 Dec 2015 11:30:55

Lab Code: BON	SDG: MF6R18	Contract: EPW14029	Submission Group Id: 30113623
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SampleAnalysis

NONE FOUND

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 20, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: MF6R29

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 19, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1602-212-0011
TDF No.:	6-16-121A
ESAT File No.:	I-0680

Attached is the data review summary for Case # 45671
SDG # MF6R29
Site Wilcox Oil

015993

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY BON	NO. OF SAMPLES 5
CONTRACT# EP-W-14-029	MATRIX Water
SDG# MF6R29	REVIEWER (IF NOT ESB) ESAT
SOW# ISM02.3/MA 2542.1	REVIEWER'S NAME Sonya Meekins
SF# 303DD2GG	COMPLETION DATE January 19, 2016

SAMPLE NO.					
	MF6R29	MF6R36			
	MF6R33				
	MF6R34				
	MF6R35				

		ICP-MS	HG
1.	HOLDING TIMES	O	O
2.	CALIBRATIONS	O	O
3.	BLANKS	O	O
4.	MATRIX SPIKES	O	O
5.	DUPLICATE ANALYSIS	M	O
6.	ICP QC	M	N/A
7.	LCS	O	N/A
8.	SAMPLE VERIFICATION	O	O
9.	OTHER QC	N/A	N/A
10.	OVERALL ASSESSMENT	M	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: The aluminum laboratory duplicate difference was above the QC limit. The aluminum and zinc serial dilution differences were above the QC limit. Two samples had poor I.S. performance.

015994

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** MF6R29 **SITE** Wilcox Oil **LAB** BON

COMMENTS: This SDG consisted of five water samples for total metals by ICP-MS and mercury analyses following SOW ISM02.3. The samples were also subject to Modified Analysis Request 2542.1 (MA 2542.1), which requested lower CRQLs for eight analytes. The sampler designated sample MF6R29 for QC analyses.

S4VEM Review was performed for this data package as requested by the TDF. The target analytes of concern with the desired CRQLs in parentheses are antimony (1.0 ug/L), arsenic (0.50 ug/L), cadmium (0.50 ug/L), chromium (1.0 ug/L), cobalt (0.50 ug/L), magnesium (250 ug/L), selenium (2.5 ug/L), and thallium (0.50 ug/L). The analytes of concern detected above the CRQLs are arsenic, cadmium, chromium, cobalt, and/or magnesium in all samples. The laboratory reanalyzed samples MF6R33 and MF6R34 at the required 2X dilution because the %RI for ISs SC-45, Y-89, and Bi-209 were above the QC limit in the undiluted analyses of these samples. The dilutions repeated this problem so the laboratory reported the undiluted results associated with ISs SC-45, Y-89, Ho-165 and Bi-209. The laboratory also diluted (up to 300X) and reanalyzed sample MF6R33 because of high lead, manganese, and sodium concentrations.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with a laboratory duplicate difference, serial dilution differences, and poor instrument performance. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

015995

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

015996

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
QCCOD:	Sample QC Code
SMPQUAL:	Sample Qualifier
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
PRPDATE:	Sample Preparation Date
LRDATE:	Laboratory Receipt Date
LEVEL:	Sample Level
PERSOLD:	Sample Percent Solids
SMPWTVL:	Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL:	Final Sample Volume
METHOD:	Method of Analysis
STATLOC:	Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

015997

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

015998

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/30/2015	16:36:46	7429-90-5	Aluminum	3200	J	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-38-2	Arsenic	2.5		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-39-3	Barium	45.0		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-70-2	Calcium	16000		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-47-3	Chromium	2.3		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-48-4	Cobalt	3.8		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-50-8	Copper	4.2		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7439-89-6	Iron	7230		ug/L	200	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/28/2015	12:37:25	7439-92-1	Lead	495		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7439-95-4	Magnesium	6890		ug/L	250	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/30/2015	16:36:46	7439-96-5	Manganese	827		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-02-0	Nickel	4.6		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-09-7	Potassium	2960		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-23-5	Sodium	7890		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/30/2015	16:36:46	7440-62-2	Vanadium	4.6	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/29/2015	11:01:33	7440-66-6	Zinc	23.5	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/30/2015	16:53:24	7429-90-5	Aluminum	46100	J	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-38-2	Arsenic	32.9		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-39-3	Barium	1800		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-41-7	Beryllium	5.1	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-43-9	Cadmium	1.9	J	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-70-2	Calcium	63500	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-47-3	Chromium	99.8		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-48-4	Cobalt	24.0	J	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-50-8	Copper	32.1	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7439-89-6	Iron	35400	J	ug/L	200	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/28/2015	12:46:38	7439-92-1	Lead	151000		ug/L	300	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7439-95-4	Magnesium	59700	J	ug/L	250	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/30/2015	17:09:59	7439-96-5	Manganese	6950		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-02-0	Nickel	31.8	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-09-7	Potassium	4690	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7782-49-2	Selenium	4.0		ug/L	2.5	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-22-4	Silver	1.5	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:56:43	7440-23-5	Sodium	146000	J	ug/L	1000	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-28-0	Thallium	0.50	UJ	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/30/2015	16:53:24	7440-62-2	Vanadium	133		ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/29/2015	11:18:04	7440-66-6	Zinc	70.4	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/30/2015	16:57:33	7429-90-5	Aluminum	71600	J	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-38-2	Arsenic	24.3		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-39-3	Barium	704		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-41-7	Beryllium	5.8	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-43-9	Cadmium	0.50	UJ	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-70-2	Calcium	11800	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-47-3	Chromium	148		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-48-4	Cobalt	16.2	J	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-50-8	Copper	21.2	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7439-89-6	Iron	29100	J	ug/L	200	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/28/2015	12:49:23	7439-92-1	Lead	471	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7439-95-4	Magnesium	7810	J	ug/L	250	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/30/2015	16:57:33	7439-96-5	Manganese	2470		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-02-0	Nickel	15.7	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-09-7	Potassium	4230	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7782-49-2	Selenium	3.4		ug/L	2.5	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-23-5	Sodium	2180	UJ	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-28-0	Thallium	0.50	UJ	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/30/2015	16:57:33	7440-62-2	Vanadium	209		ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/29/2015	11:22:12	7440-66-6	Zinc	26.4	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/30/2015	17:01:42	7429-90-5	Aluminum	1740	J	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-38-2	Arsenic	1.3		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-39-3	Barium	62.3		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	POND DISCH

45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-70-2	Calcium	24400		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-47-3	Chromium	2.6		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-48-4	Cobalt	0.5	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-50-8	Copper	5.1		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7439-89-6	Iron	1700		ug/L	200	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/28/2015	12:51:48	7439-92-1	Lead	61.8		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7439-95-4	Magnesium	7120		ug/L	250	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/30/2015	17:01:42	7439-96-5	Manganese	59.0		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-02-0	Nickel	3.3		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-09-7	Potassium	4190		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-23-5	Sodium	8610		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/30/2015	17:01:42	7440-62-2	Vanadium	2.8	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/29/2015	11:26:20	7440-66-6	Zinc	17.5	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/30/2015	17:05:50	7429-90-5	Aluminum	1740	J	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-38-2	Arsenic	1.2		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-39-3	Barium	65.0		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-70-2	Calcium	25900		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-47-3	Chromium	2.6		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-48-4	Cobalt	0.69	LJ	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-50-8	Copper	5.2		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7439-89-6	Iron	1750		ug/L	200	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/28/2015	12:53:55	7439-92-1	Lead	59.8		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7439-95-4	Magnesium	7670		ug/L	250	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/30/2015	17:05:50	7439-96-5	Manganese	59.5		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-02-0	Nickel	3.4		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-09-7	Potassium	4400		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-23-5	Sodium	9050		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/30/2015	17:05:50	7440-62-2	Vanadium	2.8	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/29/2015	11:30:28	7440-66-6	Zinc	18.7	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R29	MF6R29	5120218-01	W	Field_Sample	12/28/2015	15:01:34	7439-97-6	Mercury	0.089	LJ	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	TF-34-DISCH
45671	MF6R29	MF6R33	5120218-02	W	Field_Sample	12/28/2015	15:04:06	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	TF-34-01
45671	MF6R29	MF6R34	5120218-03	W	Field_Sample	12/28/2015	15:06:38	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	LOR-18
45671	MF6R29	MF6R35	5120218-04	W	Field_Sample	12/28/2015	15:09:10	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	POND DISCH
45671	MF6R29	MF6R36	5120218-05	W	Field_Sample	12/28/2015	15:11:41	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	FD-04

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. MF6R29 SDG Nos. To Follow Mod. Ref. No. 2542.1 Date Rec 01/06/16

EPA Lab ID: BON

Lab location: Hattiesburg, MS

Region: 6 Audit No.: 45671/MF6R29

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

14/15 Sample tags were not required for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: _____ Sonya Meekins/ESAT Data Reviewer Date 01/13/16

Audited by: _____ _____ Date _____

Signature Printed Name/Title

DC-2__

016001

USEPA CLP COC (LAB COPY)
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220215

CHAIN OF CUSTODY RECORD

Case #: 45671 EPW14029
Cooler #: MF6R29

No: 6-121515-111029-0018
Lab: Bonner Analytical Testing Company - BON
Lab Contact: Chris Bonner
Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	MF6R29 MF6R42	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1218 (HNO3 pH<2, 4 C), 1219 (HNO3 pH<2, 4 C), 1221 (HNO3 pH<2, 4 C), 1222 (HNO3 pH<2, 4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0033	MF6R32	Ground Water/ SERAS	Grab	DMw+DHg(21)	1253 (HNO3 pH<2, 4 C) (1)	AA-GW-03	12/14/2015 11:45	
277-0034	MF6R33 MF6R44	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1263 (HNO3 pH<2, 4 C), 1264 (HNO3 pH<2, 4 C) (2)	TF-34-01	12/14/2015 13:00	
277-0035	MF6R34 MF6R45	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1273 (HNO3 pH<2, 4 C), 1274 (HNO3 pH<2, 4 C) (2)	LOR-18	12/14/2015 12:00	
277-0036	MF6R35 MF6R46	Surface Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1283 (HNO3 pH<2, 4 C), 1284 (HNO3 pH<2, 4 C) (2)	POND DISCH	12/14/2015 14:00	
277-0037	MF6R36 MF6R47	Surface Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1293 (HNO3 pH<2, 4 C), 1294 (HNO3 pH<2, 4 C) (2)	FD-04	12/14/2015 14:00	

Page 1 of 1

Sample(s) to be used for Lab QC: 277-0030 Tag 1218, 277-0030 Tag 1219, 277-0030 Tag 1221, 277-0030 Tag 1222 - Special Instructions: ICP-MS for: Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc 3°C

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: DMw+DHg=DissMetals ICP-MS by ISM02.3/MA#2542.1 & Dissolved Hg by ISM02.3, TMw+Hg+Cn=TotalMetals ICP-MS by ISM02.3/MA#2542.1 & Hg,Cn by ISM02.3

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis	LM/SERAS	12/15/15 12:50	D. Ashley Bonner	0943 12-16-15	Good

3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 21, 2016

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores
Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: WILCOX OIL

Case#: 45671

SDG#: MF6R32

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 20, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1602-212-0012
TDF No.:	6-16-122A
ESAT File No.:	I-0681

Attached is the data review summary for Case # 45671
SDG # MF6R32
Site Wilcox Oil

016004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 45671	SITE Wilcox Oil
LABORATORY BON	NO. OF SAMPLES 6
CONTRACT# EP-W-14-029	MATRIX Water
SDG# MF6R32	REVIEWER (IF NOT ESB) ESAT
SOW# ISM02.3/MA 2542.1	REVIEWER'S NAME Sonya Meekins
SF# 303DD2GG	COMPLETION DATE January 20, 2016

SAMPLE NO.					
	MF6R32	MF6R46			
	MF6R42	MF6R47			
	MF6R44				
	MF6R45				

	ICP-MS	HG
1. HOLDING TIMES	O	O
2. CALIBRATIONS	O	O
3. BLANKS	O	O
4. MATRIX SPIKES	O	O
5. DUPLICATE ANALYSIS	O	O
6. ICP QC	M	N/A
7. LCS	O	N/A
8. SAMPLE VERIFICATION	O	O
9. OTHER QC	N/A	N/A
10. OVERALL ASSESSMENT	M	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: The sodium serial dilution difference was above the QC limit. One sample had poor IS performance.

016005

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45671 **SDG** MF6R32 **SITE** Wilcox Oil **LAB** BON

COMMENTS: This SDG consisted of six dissolved water samples for total metals by ICP-MS and mercury analyses following SOW ISM02.3. The samples were also subject to Modified Analysis Request 2542.1 (MA 2542.1), which requested lower CRQLs for eight analytes. The sampler designated sample MF6R42 for QC analyses.

The target analytes of concern with the desired CRQLs in parentheses are antimony (1.0 ug/L), arsenic (0.50 ug/L), cadmium (0.50 ug/L), chromium (1.0 ug/L), cobalt (0.50 ug/L), magnesium (250 ug/L), selenium (2.5 ug/L), and thallium (0.50 ug/L). The analytes of concern detected above the CRQLs are antimony, arsenic, chromium, cobalt, magnesium, and/or selenium in all samples. The laboratory reanalyzed sample MF6R32 at the required 2X dilution because the %RI for ISs Y-89 and Bi-209 were above the QC limit in the undiluted analyses of these samples. The dilution repeated this problem for IS Y-89, so the laboratory reported the associated undiluted results. The dilution had an acceptable %RI for IS Bi-209, so the laboratory reported the results associated with IS Bi-209 from the diluted analysis. The laboratory also diluted (up to 100X) and reanalyzed samples MF6R32 and MF6R44 because of high lead, sodium, and/or vanadium concentrations. Because of sample matrix, the laboratory reduced the digestion volume for sample MF6R32 by half. Therefore, the CRQLs for cadmium and thallium did not meet the CRQLs in the MA 2542.1 for these two analytes.

S3VEM Review was performed for this data package as requested by the TDF. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with a serial dilution difference and/or poor IS performance. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

016006

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

016007

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
QCCOD:	Sample QC Code
SMPQUAL:	Sample Qualifier
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
PRPDATE:	Sample Preparation Date
LRDATE:	Laboratory Receipt Date
LEVEL:	Sample Level
PERSOLD:	Sample Percent Solids
SMPWTVL:	Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL:	Final Sample Volume
METHOD:	Method of Analysis
STATLOC:	Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

016008

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

016009

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7429-90-5	Aluminum	1270		ug/L	40.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-36-0	Antimony	13.3		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-38-2	Arsenic	707		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-39-3	Barium	752		ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-41-7	Beryllium	13.9		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-43-9	Cadmium	1.0	UJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-70-2	Calcium	69300		ug/L	1000	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	01/04/2016	13:54:03	7440-47-3	Chromium	752		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-48-4	Cobalt	69.8	J	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-50-8	Copper	39.0	J	ug/L	4.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7439-89-6	Iron	16700	J	ug/L	400	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	01/04/2016	14:28:33	7439-92-1	Lead	752	J	ug/L	4.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7439-95-4	Magnesium	79000		ug/L	500	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7439-96-5	Manganese	1370		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-02-0	Nickel	919	J	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-09-7	Potassium	1550		ug/L	1000	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7782-49-2	Selenium	58.5		ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-22-4	Silver	2.0	UJ	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/29/2015	13:57:40	7440-23-5	Sodium	6480000	J	ug/L	100000	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	01/04/2016	14:28:33	7440-28-0	Thallium	2.0	UJ	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	01/04/2016	14:36:14	7440-62-2	Vanadium	4170		ug/L	30.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/30/2015	19:19:23	7440-66-6	Zinc	35.9	J	ug/L	4.0	12/14/2015	12/22/2015	12/16/2015			25	50	MS	AA-GW-03
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7429-90-5	Aluminum	29.6		ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-38-2	Arsenic	1.1		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-39-3	Barium	37.9		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-70-2	Calcium	17400		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	01/04/2016	13:57:53	7440-47-3	Chromium	0.49	LJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-48-4	Cobalt	3.6		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-50-8	Copper	2.9		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7439-89-6	Iron	1400		ug/L	200	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7439-92-1	Lead	106		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7439-95-4	Magnesium	7240		ug/L	250	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7439-96-5	Manganese	894		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-02-0	Nickel	1.0		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-09-7	Potassium	3050		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/29/2015	14:00:08	7440-23-5	Sodium	8410	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-62-2	Vanadium	0.38	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/30/2015	19:23:28	7440-66-6	Zinc	14.6		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-DISCH
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7429-90-5	Aluminum	4430		ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-36-0	Antimony	1.3		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-38-2	Arsenic	8.3		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-39-3	Barium	117		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-41-7	Beryllium	0.31	LJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-70-2	Calcium	15800		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	01/04/2016	14:13:12	7440-47-3	Chromium	9.1		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-48-4	Cobalt	6.0		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-50-8	Copper	5.9		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7439-89-6	Iron	6490		ug/L	200	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	01/04/2016	14:32:23	7439-92-1	Lead	3860		ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7439-95-4	Magnesium	8070		ug/L	250	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7439-96-5	Manganese	1470		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-02-0	Nickel	9.4		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-09-7	Potassium	1750		ug/L	500	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7782-49-2	Selenium	0.55	LJ	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/29/2015	14:17:05	7440-23-5	Sodium	362000	J	ug/L	2000	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-62-2	Vanadium	12.9		ug/L	5.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/30/2015	19:39:51	7440-66-6	Zinc	13.7		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	TF-34-01
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7429-90-5	Aluminum	20.0	U	ug/L	20.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-38-2	Arsenic	9.9		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-39-3	Barium	108		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015			50	50	MS	LOR-18

45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-70-2	Calcium	37500		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	01/04/2016	14:17:02	7440-47-3	Chromium	0.33	LJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-48-4	Cobalt	1.4		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-50-8	Copper	2.0	U	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7439-89-6	Iron	36800		ug/L	200	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7439-92-1	Lead	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7439-95-4	Magnesium	6380		ug/L	250	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7439-96-5	Manganese	1660		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-02-0	Nickel	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-09-7	Potassium	1010		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/29/2015	14:09:57	7440-23-5	Sodium	3210	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/30/2015	19:43:57	7440-66-6	Zinc	2.0	U	ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	LOR-18
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7429-90-5	Aluminum	215		ug/L	20.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-38-2	Arsenic	0.78		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-39-3	Barium	54.8		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-70-2	Calcium	26000		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	01/04/2016	14:20:52	7440-47-3	Chromium	0.77	LJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-48-4	Cobalt	0.34	LJ	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-50-8	Copper	3.9		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7439-89-6	Iron	304		ug/L	200	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7439-92-1	Lead	11.1		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7439-95-4	Magnesium	7300		ug/L	250	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7439-96-5	Manganese	36.0		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-02-0	Nickel	2.8		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-09-7	Potassium	4080		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/29/2015	14:12:07	7440-23-5	Sodium	8780	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-62-2	Vanadium	0.35	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/30/2015	19:48:03	7440-66-6	Zinc	9.2		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	POND DISCH
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7429-90-5	Aluminum	366		ug/L	20.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-36-0	Antimony	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-38-2	Arsenic	0.68		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-39-3	Barium	54.0		ug/L	10.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-41-7	Beryllium	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-70-2	Calcium	25100		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	01/04/2016	14:24:43	7440-47-3	Chromium	0.91	LJ	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-48-4	Cobalt	0.60		ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-50-8	Copper	3.7		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7439-89-6	Iron	460		ug/L	200	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7439-92-1	Lead	14.9		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7439-95-4	Magnesium	7130		ug/L	250	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7439-96-5	Manganese	37.4		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-02-0	Nickel	2.6		ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-09-7	Potassium	3960		ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7782-49-2	Selenium	2.5	U	ug/L	2.5	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-22-4	Silver	1.0	U	ug/L	1.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/29/2015	14:14:36	7440-23-5	Sodium	8330	J	ug/L	500	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-28-0	Thallium	0.50	U	ug/L	0.50	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-62-2	Vanadium	0.65	LJ	ug/L	5.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/30/2015	19:52:09	7440-66-6	Zinc	9.9		ug/L	2.0	12/14/2015	12/22/2015	12/16/2015	50	50	MS	FD-04
45671	MF6R32	MF6R32	5120223-01	W	Field_Sample	12/23/2015	09:54:59	7439-97-6	Mercury	0.15	LJ	ug/L	0.40	12/14/2015	12/22/2015	12/16/2015	25	50	CV	AA-GW-03
45671	MF6R32	MF6R42	5120223-02	W	Field_Sample	12/23/2015	10:02:44	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	TF-34-DISCH
45671	MF6R32	MF6R44	5120223-03	W	Field_Sample	12/23/2015	10:05:15	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	TF-34-01
45671	MF6R32	MF6R45	5120223-04	W	Field_Sample	12/23/2015	10:07:48	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	LOR-18
45671	MF6R32	MF6R46	5120223-05	W	Field_Sample	12/23/2015	10:10:20	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	POND DISCH
45671	MF6R32	MF6R47	5120223-06	W	Field_Sample	12/23/2015	10:12:52	7439-97-6	Mercury	0.20	U	ug/L	0.20	12/14/2015	12/22/2015	12/16/2015	50	50	CV	FD-04

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45671 SDG No. MF6R32 SDG Nos. To Follow Mod. Ref. No. 2542.1 Date Rec 01/06/16

EPA Lab ID: BON

Lab location: Hattiesburg, MS

Region: 6 Audit No.: 45671/MF6R32

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

14/15 Sample tags were not required for this case.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: _____ Sonya Meekins/ESAT Data Reviewer Date 01/15/16

Audited by: _____ _____ Date _____

Signature Printed Name/Title

DC-2_

016012

USEPA CLP COC (LAB COPY)
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220215

CHAIN OF CUSTODY RECORD
Case #: 45671 EPW14029
Cooler #: MF6R32

No: 6-121515-111029-0018
Lab: Bonner Analytical Testing Company - BON
Lab Contact: Chris Bonner
Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	MF6R29 MF6R42	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1218 (HNO3 pH<2, 4 C), 1219 (HNO3 pH<2, 4 C), 1221 (HNO3 pH<2, 4 C), 1222 (HNO3 pH<2, 4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0033	MF6R32	Ground Water/ SERAS	Grab	DMw+DHg(21)	1253 (HNO3 pH<2, 4 C) (1)	AA-GW-03	12/14/2015 11:45	
277-0034	MF6R33 MF6R44	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1263 (HNO3 pH<2, 4 C), 1264 (HNO3 pH<2, 4 C) (2)	TF-34-01	12/14/2015 13:00	
277-0035	MF6R34 MF6R45	Ground Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1273 (HNO3 pH<2, 4 C), 1274 (HNO3 pH<2, 4 C) (2)	LOR-18	12/14/2015 12:00	
277-0036	MF6R35 MF6R46	Surface Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1283 (HNO3 pH<2, 4 C), 1284 (HNO3 pH<2, 4 C) (2)	POND DISCH	12/14/2015 14:00	
277-0037	MF6R36 MF6R47	Surface Water/ SERAS	Grab	DMw+DHg(21), TMw+Hg+Cn(21)	1293 (HNO3 pH<2, 4 C), 1294 (HNO3 pH<2, 4 C) (2)	FD-04	12/14/2015 14:00	

Page 10 of 10

Sample(s) to be used for Lab QC: 277-0030 Tag 1218, 277-0030 Tag 1219, 277-0030 Tag 1221, 277-0030 Tag 1222 - Special Instructions: ICP-MS for: Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc 3°C

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: DMw+DHg=DissMetals ICP-MS by ISM02.3/MA#2542.1 & Dissolved Hg by ISM02.3, TMw+Hg+Cn=TotalMetals ICP-MS by ISM02.3/MA#2542.1 & Hg,Cn by ISM02.3

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Dw/Analysis	LM/SERAS	12/15/15 12:50	D. Aik Bonner	0943 12-16-15	good
					COPY
				ORIGINAL IN CSF: MF6R29	
				Signature: D. Aik	

3

ADDENDUM

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

HoldingTimes_Preservation

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

TUNE

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InitialCalibration

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

ContinuingCalibrationVerification

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Blanks

Method - Metals by ICP-MS

Test Name: EXES-1342
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Antimony	MF6R46, MF6R42, MF6R45, MF6R47
Cobalt	MF6R46
Copper	MF6R45
Silver	MF6R42, MF6R44, MF6R32
Thallium	MF6R44, MF6R32

Test Name: EXES-476
Defect Message: The following samples have analyte results less than or equal to CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Detects are qualified as U. Sample results are reported at CRQLs.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Antimony	MF6R46, MF6R47, MF6R45, MF6R42
Silver	MF6R32, MF6R44, MF6R42
Thallium	MF6R44, MF6R32

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Aluminum	MF6R47, MF6R46, MF6R32, MF6R44, MF6R42
Antimony	MF6R44, MF6R32
Arsenic	MF6R42, MF6R32, MF6R45, MF6R46, MF6R47, MF6R44
Barium	MF6R44, MF6R32, MF6R45, MF6R42, MF6R46, MF6R47
Beryllium	MF6R32
Calcium	MF6R42, MF6R32, MF6R47, MF6R44, MF6R45, MF6R46
Chromium	MF6R44, MF6R32

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-478
Defect Message: The following samples have analyte results greater than CRQLs. The associated ICB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Cobalt	MF6R32, MF6R44, MF6R42, MF6R45, MF6R47
Copper	MF6R46, MF6R32, MF6R42, MF6R44, MF6R47
Iron	MF6R46, MF6R42, MF6R32, MF6R47, MF6R44, MF6R45
Lead	MF6R47, MF6R46, MF6R44, MF6R42, MF6R32
Magnesium	MF6R32, MF6R44, MF6R45, MF6R46, MF6R42, MF6R47
Manganese	MF6R42, MF6R32, MF6R45, MF6R46, MF6R47, MF6R44
Nickel	MF6R42, MF6R46, MF6R47, MF6R32, MF6R44
Potassium	MF6R44, MF6R47, MF6R42, MF6R45, MF6R46, MF6R32
Selenium	MF6R32
Sodium	MF6R42, MF6R44, MF6R32, MF6R45, MF6R47, MF6R46
Vanadium	MF6R44, MF6R32
Zinc	MF6R32, MF6R46, MF6R44, MF6R42, MF6R47

Test Name: EXES-479
Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Aluminum	MF6R47, MF6R32, MF6R46, MF6R44, MF6R42
Antimony	MF6R32, MF6R44
Arsenic	MF6R32, MF6R47, MF6R42, MF6R45, MF6R46, MF6R44
Barium	MF6R44, MF6R32, MF6R45, MF6R42, MF6R46, MF6R47
Beryllium	MF6R32
Calcium	MF6R45, MF6R47, MF6R44, MF6R32, MF6R46, MF6R42
Chromium	MF6R44, MF6R32
Cobalt	MF6R47, MF6R42, MF6R32, MF6R45, MF6R44
Copper	MF6R47, MF6R46, MF6R32, MF6R44, MF6R42
Iron	MF6R46, MF6R42, MF6R32, MF6R47, MF6R45, MF6R44
Lead	MF6R46, MF6R32, MF6R47, MF6R42, MF6R44
Magnesium	MF6R32, MF6R44, MF6R45, MF6R42, MF6R47, MF6R46
Manganese	MF6R47, MF6R46, MF6R42, MF6R32, MF6R44, MF6R45
Nickel	MF6R44, MF6R42, MF6R46, MF6R47, MF6R32
Potassium	MF6R42, MF6R45, MF6R47, MF6R44, MF6R32, MF6R46
Selenium	MF6R32
Sodium	MF6R32, MF6R42, MF6R45, MF6R47, MF6R44, MF6R46
Vanadium	MF6R32, MF6R44
Zinc	MF6R42, MF6R44, MF6R46, MF6R32, MF6R47

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-508
Defect Message: The following samples have analyte results greater than CRQLs. The associated PB analyte results are less than or equal to CRQLs. Use Professional Judgement to qualify detects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Antimony	MF6R32, MF6R44
Arsenic	MF6R42, MF6R45, MF6R44, MF6R46, MF6R47, MF6R32
Barium	MF6R44, MF6R32, MF6R45, MF6R47, MF6R42, MF6R46
Chromium	MF6R32, MF6R44
Copper	MF6R47, MF6R42, MF6R46, MF6R32, MF6R44
Iron	MF6R44, MF6R45, MF6R47, MF6R46, MF6R42, MF6R32
Lead	MF6R42, MF6R32, MF6R44, MF6R46, MF6R47
Nickel	MF6R46, MF6R47, MF6R44, MF6R32, MF6R42
Potassium	MF6R47, MF6R42, MF6R45, MF6R46, MF6R44, MF6R32
Sodium	MF6R32, MF6R47, MF6R46, MF6R42, MF6R44, MF6R45

Method - Mercury by Cold Vapor

Test Name: EXES-480
Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Mercury	MF6R45, MF6R42, MF6R32, MF6R46, MF6R47, MF6R44

Test Name: EXES-549
Defect Message: The following samples are associated with PB that has analyte results less than or equal to (-MDL) but greater than or equal to (-CRQL). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Mercury	MF6R45, MF6R42, MF6R32, MF6R46, MF6R47, MF6R44

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InterferenceCheckSample

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

LaboratoryControlSample

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

MatrixSpikes

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SerialDilution

Method - Metals by ICP-MS

Test Name: EXES-1334
Defect Message: The following samples are associated to the Serial Dilution sample with analyte absolute value %D >10% and the original sample result is > 50xMDL. Detects are qualified as estimated J. Non-detects are qualified estimated UJ.
Associated Samples: MF6R32, MF6R42, MF6R44, MF6R45, MF6R46, MF6R47

Aluminum	MF6R42L
Sodium	MF6R42L

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

InternalStandard

NONE FOUND

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

DetectionLimit

Method - Metals by ICP-MS

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: MF6R32, MF6R42, MF6R42L, MF6R44, MF6R45, MF6R46, MF6R47, PBW01

Aluminum	MF6R42L
Antimony	MF6R46, PBW01, MF6R47, MF6R42, MF6R42D, MF6R45
Arsenic	PBW01, MF6R42L
Barium	MF6R42L, PBW01
Beryllium	MF6R44
Cadmium	MF6R46, MF6R42D, MF6R42, MF6R32, MF6R47, MF6R44
Chromium	MF6R46, MF6R47, MF6R45, MF6R42, MF6R42D, PBW01
Cobalt	MF6R46
Copper	MF6R45, MF6R42L, PBW01
Iron	PBW01
Lead	PBW01, MF6R45
Nickel	MF6R45, MF6R42L, PBW01
Potassium	PBW01
Selenium	MF6R44, MF6R42L
Silver	MF6R44, MF6R42D, MF6R42, MF6R32
Sodium	PBW01
Thallium	MF6R42D, MF6R32, MF6R44, PBW01
Vanadium	MF6R47, MF6R42D, MF6R42, MF6R46
Zinc	MF6R45

Method - Mercury by Cold Vapor

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Test Name: EXES-790

Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: MF6R32

Mercury	MF6R32

Data Validation Report

Data Review Results

Mon, 11 Jan 2016 11:52:40

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

Duplicates

NONE FOUND

Data Validation Report

Data Review Results

Lab Code: BON	SDG: MF6R32	Contract: EPW14029	Submission Group Id: 30116601
Lab Name: Bonner Analytical Testing Co.	Case: 45671	Client: EPA Region 6	SOW: ISM02.3

SampleAnalysis

NONE FOUND

LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

DATE: December 24, 2015

TO: R.Singhvi, ERTC/EPA

FROM: Misty Barkley, Analytical Support Chemist MB

SUBJECT: Preliminary Results of Project: Wilcox WA #0-277

Attached please find the preliminary results of the above referenced project for the following samples.

Date Received	chain of custody	No of Samples	Analysis Requested	Matrix	Lab Job No.
12/04/15	6-120315-172318-0005	5	GRO	Soil	S19763
12/08/15	6-120815-183003-0010	13	GRO	Soil	SI9891
12/14/15	6-121115-163344-0015	9	GRO	Soil	TI0037
12/16/15	6-121515-104648-0016	4	GRO	Soil	TI0110
12/16/15	6-121515-123522-0023	3	GRO	Soil	TI0110

cc: Archives
J. Patel
D. Killeen
J. McBurney
T. Kady
K. Taylor

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9900-1RA
Client ID: 277-0002
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2083.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		180	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		64.2	%				

300 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9900-2DL
Client ID: 277-0003
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2081.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		670	mg/Kgdrywt	5	2.5	13.	9.4
p-Bromofluorobenzene	*	45.2	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9900-3DL
Client ID: 277-0004
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2082.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		710	mg/Kgdrywt	5	2.5	13.	9.7
p-Bromofluorobenzene		67.8	%				

00 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9900-4
Client ID: 277-0005
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2063.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 11-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		21	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		114.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9900-5
Client ID: 277-0001
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2064.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 11-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		150	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		58.8	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-1DL
Client ID: 277-0011
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2084.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		480	mg/Kgdrywt	5	2.5	12.	9.0
p-Bromofluorobenzene		69.8	%				

00 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-2DL
Client ID: 277-0012
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2085.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		430	mg/Kgdrywt	5	2.5	12.	8.7
p-Bromofluorobenzene		78.0	%				

...0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-3
Client ID: 277-0013
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2068.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 11-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		190	mg/Kgdrywt	1	2.5	2.7	2.0
p-Bromofluorobenzene		68.3	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin Analytical Services A000011

016039

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-4
Client ID: 277-0014
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2069.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 11-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		130	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		70.4	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-5
Client ID: 277-0015
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2070.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 12-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 88.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.5	mg/Kgdrywt	1	2.5	2.5	1.9
p-Bromofluorobenzene		96.6	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-6
Client ID: 277-0016
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2071.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 12-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 90.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		150	mg/Kgdrywt	1	2.5	2.4	1.8
p-Bromofluorobenzene		70.9	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-7DL
Client ID: 277-0017
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2087.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		3000	mg/Kgdrywt	20	2.5	48.	36.
p-Bromofluorobenzene		80.9	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-8RA
Client ID: 277-0018
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2088.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.4	mg/Kgdrywt	1	2.5	2.4	1.8
p-Bromofluorobenzene		97.8	%				

300 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-9RA
Client ID: 277-0006
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2089.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 88.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		190	mg/Kgdrywt	1	2.5	2.5	1.9
p-Bromofluorobenzene		64.7	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-10DL
Client ID: 277-0007
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2090.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 15-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		1900	mg/Kgdrywt	10	2.5	26.	19.
p-Bromofluorobenzene		85.8	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-11RA
Client ID: 277-0008
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2091.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 15-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.6	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		104.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

016047

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-12
Client ID: 277-0009
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2079.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 14-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		3.5	mg/Kgdrywt	1	2.5	2.5	1.8
p-Bromofluorobenzene		95.2	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9902-13DL
Client ID: 277-0010
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2092.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG175867

Analysis Date: 15-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		510	mg/Kgdrywt	5	2.5	13.	9.5
p-Bromofluorobenzene		69.2	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-1DL
Client ID: 277-0025
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2119.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 18-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 80.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		3100	mg/Kgdrywt	10	2.5	44.	32.
p-Bromofluorobenzene		72.9	%				

300 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-2DL2
Client ID: 277-0026
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2120.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 18-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		910	mg/Kgdrywt	10	2.5	26.	19.
p-Bromofluorobenzene	*	48.3	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-3DL
Client ID: 277-0027
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2121.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 18-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		830	mg/Kgdrywt	5	2.5	12.	9.0
p-Bromofluorobenzene		66.6	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-4RA
Client ID: 277-0028
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2118.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 18-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		86	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		67.9	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-5
Client ID: 277-0029
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2108.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.8	mg/Kgdrywt	1	2.5	2.8	2.1
p-Bromofluorobenzene		100.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-6
Client ID: 277-0019
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2109.D

Sample Date: 09-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.6	mg/Kgdrywt	1	2.5	2.6	1.9
p-Bromofluorobenzene		102.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-7
Client ID: 277-0021
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2110.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		5.1	mg/Kgdrywt	1	2.5	2.7	2.0
p-Bromofluorobenzene		103.	%				

300 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin Analytical Services A000028

016056

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-8
Client ID: 277-0022
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2111.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 83.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	2.9	mg/Kgdrywt	1	2.5	2.9	2.1
p-Bromofluorobenzene		101.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0037-9DL
Client ID: 277-0024
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2122.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 17-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176199

Analysis Date: 18-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 81.
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		590	mg/Kgdrywt	10	2.5	29.	21.
p-Bromofluorobenzene		82.8	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-1DL
Client ID: 277-0034
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2144.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		900	ug/l	2	10	20.	13.
p-Bromofluorobenzene	*	74.0	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-2DL
Client ID: 277-0035
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2145.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		4000	ug/l	20	10	200	130
p-Bromofluorobenzene		80.5	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-3RA
Client ID: 277-0043
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2139.D

Sample Date: 15-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	10	ug/l	1	10	10.	6.7
p-Bromofluorobenzene		90.5	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-4RA
Client ID: 277-0030
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2140.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	10	ug/l	1	10	10.	6.7
p-Bromofluorobenzene		81.0	%				

300 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-5DL
Client ID: 277-0033
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2153.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 22-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 22-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics		18000	ug/l	100	10	1000	670
p-Bromofluorobenzene		112.	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-6RA
Client ID: 277-0036
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2141.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	10	ug/l	1	10	10.	6.7
p-Bromofluorobenzene		95.0	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-7RA
Client ID: 277-0037
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2142.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	10	ug/l	1	10	10.	6.7
p-Bromofluorobenzene		91.5	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0110-8RA
Client ID: 277-0038
Project: Lockheed Martin SERAS Proj
SDG: 0277-2
Lab File ID: 9IL2143.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 21-DEC-15
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG176416

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Gasoline Range Organics	U	10	ug/l	1	10	10.	6.7
p-Bromofluorobenzene		92.5	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

USEPA
DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220064

S19841

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120815-183003-0010
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0011	TF-11-05	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0011	TF-11-05	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0012	TF-12-01	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0012	TF-12-01	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0013	TF-12-05	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0013	TF-12-05	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0014	FD-02	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0014	FD-02	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0015	TF-12-06	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0015	TF-12-06	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0016	WIL-20	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0016	WIL-20	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0017	WIL-35	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0017	WIL-35	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0018	WIL-14	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0018	WIL-14	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0006	WIL-30	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0006	WIL-30	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0007	WIL-29	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LMS/BRAS	12/8/15 1730		0950 12/9/15	

CCC013

USEPA
DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220064

S19391

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120815-183003-0010
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0007	WIL-29	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0008	WIL-05	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0008	WIL-05	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0009	WIL-25	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0009	WIL-25	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0010	TF-11-03	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0010	TF-11-03	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	HM SERAS	12/8/15 1730		0950 12/9/15	

0000214

Page 1 of 1

USEPA
DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220307

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121115-163344-0015
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

T10036/T10037

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0025	TF-34-01	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0025	TF-34-01	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0026	LOR-18	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0026	LOR-18	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0027	FD-03	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0027	FD-03	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0028	LOR-25A	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0028	LOR-25A	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0029	LOR-25A	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0029	LOR-25A	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0019	P-03-SAND	GRO by Method 8015	Soil	12/9/2015	2	40 mL VOA	MeOH/4C	N
	277-0019	P-03-SAND	DRO/ORO by Method 8015, 8100	Soil	12/9/2015	1	4 oz Jar	4 C	N
	277-0021	WIL-AA-10	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0021	WIL-AA-10	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N
	277-0022	WIL-AA-11	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0022	WIL-AA-11	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N
	277-0024	WIL-41	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0024	WIL-41	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analysis	LM SERAS	12/11/15 15:40	FedEx		
	FedEx		A. Brewer, Katahdin	12/12/15 09:05	

SDG 0005

USEPA
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220189

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121515-123522-0023
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

~~TF~~ T10109/T10110

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0034	TF-34-01	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0034	TF-34-01	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0035	LOR-18	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0035	LOR-18	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0043	TB-06	GRO by Method 8015	Blank	12/15/2015	4	40 ml VOA	HCl 4 C	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LMS ERAS	12/15/15 12:30		12/16/15 0930	

000016

USEPA
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220204

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121515-104648-0016
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

T10109/T10110

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0030	TF-34-DISCH	GRO by Method 8015	Ground Water	12/14/2015	6	40 ml VOA	HCl 4 C	Y
	277-0030	TF-34-DISCH	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	6	1 liter amber	HCl 4 C	Y
	277-0033	AA-GW-03	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0036	POND DISCH	GRO by Method 8015	Surface Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0036	POND DISCH	DRO/ORO by Method 8015, 8100	Surface Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0037	FD-04	GRO by Method 8015	Surface Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0037	FD-04	DRO/ORO by Method 8015, 8100	Surface Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0038	TB-01	GRO by Method 8015	Blank	11/24/2015	2	40 ml VOA	HCl 4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AL/NUTRIENTS	CH2MHILL	12/15/15 12:00		12-16-15/0930	

C000017

USEPA
DateShipped: 12/3/2015
CarrierName: FedEx
AirbillNo: 859483220432

519763

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120315-172318-0005
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0002	LOR-06	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0002	LOR-06	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0003	LOR-12	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0003	LOR-12	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0004	LOR-09	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0004	LOR-09	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0005	FD-01	GRO by Method 8015	Soil	12/3/2015	2	40 mL VOA	MeOH/4C	N
	277-0005	FD-01	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0001	P-04-01	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0001	P-04-01	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/ANALYSIS	LM SERAS	12/7/15 1630		12/4/15 0920	

DOC012

LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

DATE: December 30, 2015

TO: R.Singhvi, ERTC/EPA

FROM: Misty Barkley, Analytical Support Chemist

SUBJECT: Preliminary Results of Project: Wilcox WA #0-277

Attached please find the preliminary results of the above referenced project for the following samples.

Date Received	chain of custody	No of Samples	Analysis Requested	Matrix	Lab Job No.
12/08/15	6-120815-183003-0010	13	DRO/ORO	Soil	SI9891
12/04/15	6-120315-172318-0005	5	DRO/ORO	Soil	S19763
12/14/15	6-121115-163344-0015	9	DRO/ORO	Soil	TI0036
12/16/15	6-121515-104648-0016	3	DRO/ORO	Soil	TI0109
12/16/15	6-121515-123522-0023	2	DRO/ORO	Soil	TI0109

cc: Archives
J. Patel
D. Killeen
J. McBurney
T. Kady
K. Taylor

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9763-1DL2
Client ID: 277-0002
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10180.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 07-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG175572

Analysis Date: 12-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		5200	mg/Kgdrywt	200	5	1100	250
Extended Diesel Range Organics		1200	mg/Kgdrywt	200	2.5	560	130
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9763-2DL
Client ID: 277-0003
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10181.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 07-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG175572

Analysis Date: 12-DEC-15
Analyst: AWS
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		580	mg/Kgdrywt	10	5	54.	12.
Extended Diesel Range Organics	U	27	mg/Kgdrywt	10	2.5	27.	6.4
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9763-3DL2
Client ID: 277-0004
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10182.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 07-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG175572

Analysis Date: 12-DEC-15
Analyst: AWS
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		4200	mg/Kgdrywt	100	5	560	120
Extended Diesel Range Organics		450	mg/Kgdrywt	100	2.5	280	66.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9763-4DL
Client ID: 277-0005
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10183.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 07-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG175572

Analysis Date: 12-DEC-15
Analyst: AWS
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		2000	mg/Kgdrywt	50	5	290	64.
Extended Diesel Range Organics	U	140	mg/Kgdrywt	50	2.5	140	34.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9763-5DL2
Client ID: 277-0001
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10184.D

Sample Date: 03-DEC-15
Received Date: 04-DEC-15
Extract Date: 07-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG175572

Analysis Date: 12-DEC-15
Analyst: AWS
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		1000	mg/Kgdrywt	100	5	590	130
Extended Diesel Range Organics		480	mg/Kgdrywt	100	2.5	290	69.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-1DL2
Client ID: 277-0011
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10297.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		1300	mg/Kgdrywt	50	5	270	61.
Extended Diesel Range Organics		660	mg/Kgdrywt	50	2.5	140	32.
o-Terphenyl	D	0.00	%				

200 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-2DL2
Client ID: 277-0012
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10298.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		610	mg/Kgdrywt	50	5	280	62.
Extended Diesel Range Organics		140	mg/Kgdrywt	50	2.5	140	32.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-3DL2
Client ID: 277-0013
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10264.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		3500	mg/Kgdrywt	100	5	510	110
Extended Diesel Range Organics		700	mg/Kgdrywt	100	2.5	250	60.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-4DL
Client ID: 277-0014
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10265.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		1100	mg/Kgdrywt	50	5	250	57.
Extended Diesel Range Organics		220	mg/Kgdrywt	50	2.5	130	30.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-5DL
Client ID: 277-0015
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10269.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 88.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		77	mg/Kgdrywt	10	5	54.	12.
Extended Diesel Range Organics		41	mg/Kgdrywt	10	2.5	27.	6.3
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-6RA
Client ID: 277-0016
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10270.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 90.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		32	mg/Kgdrywt	1	5	5.5	1.2
Extended Diesel Range Organics	J	1.9	mg/Kgdrywt	1	2.5	2.7	0.64
o-Terphenyl		58.8	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-7DL
Client ID: 277-0017
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10271.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		1000	mg/Kgdrywt	20	5	110	26.
Extended Diesel Range Organics		60	mg/Kgdrywt	20	2.5	57.	14.
o-Terphenyl	D	0.00	%				

200 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-8
Client ID: 277-0018
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10243.D

Sample Date: 08-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics	U	5.6	mg/Kgdrywt	1	5	5.6	1.2
Extended Diesel Range Organics	U	2.8	mg/Kgdrywt	1	2.5	2.8	0.66
o-Terphenyl		67.0	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-9DL
Client ID: 277-0006
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10272.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 88.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		6000	mg/Kgdrywt	200	5	1000	230
Extended Diesel Range Organics		1500	mg/Kgdrywt	200	2.5	520	120
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-10DL
Client ID: 277-0007
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10273.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		15000	mg/Kgdrywt	200	5	1100	250
Extended Diesel Range Organics	U	560	mg/Kgdrywt	200	2.5	560	130
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-11
Client ID: 277-0008
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10246.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics	J	2.4	mg/Kgdrywt	1	5	5.3	1.2
Extended Diesel Range Organics	U	2.7	mg/Kgdrywt	1	2.5	2.7	0.63
o-Terphenyl		75.1	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-12DL
Client ID: 277-0009
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10274.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		920	mg/Kgdrywt	50	5	270	62.
Extended Diesel Range Organics		250	mg/Kgdrywt	50	2.5	140	32.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: SI9891-13DL
Client ID: 277-0010
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10275.D

Sample Date: 07-DEC-15
Received Date: 09-DEC-15
Extract Date: 11-DEC-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG175895

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		3000	mg/Kgdrywt	100	5	520	120
Extended Diesel Range Organics		500	mg/Kgdrywt	100	2.5	260	62.
o-Terphenyl	D	0.00	%				

[illegible]0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-1DL2
Client ID: 277-0025
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10276.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 80.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		20000	mg/Kgdrywt	500	5	6100	1400
Extended Diesel Range Organics		5500	mg/Kgdrywt	500	2.5	3000	720
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-2DL2
Client ID: 277-0026
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10277.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		6000	mg/Kgdrywt	100	5	1100	240
Extended Diesel Range Organics		630	mg/Kgdrywt	100	2.5	540	130
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-3DL2
Client ID: 277-0027
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10278.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		3600	mg/Kgdrywt	100	5	560	120
Extended Diesel Range Organics		420	mg/Kgdrywt	100	2.5	280	66.
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-4DL2
Client ID: 277-0028
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10292.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		430	mg/Kgdrywt	10	5	56.	12.
Extended Diesel Range Organics	U	28	mg/Kgdrywt	10	2.5	28.	6.6
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-5
Client ID: 277-0029
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10257.D

Sample Date: 11-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 85.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics	U	5.8	mg/Kgdrywt	1	5	5.8	1.3
Extended Diesel Range Organics	U	2.9	mg/Kgdrywt	1	2.5	2.9	0.68
o-Terphenyl		42.3	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-6
Client ID: 277-0019
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10258.D

Sample Date: 09-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 86.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics	U	5.6	mg/Kgdrywt	1	5	5.6	1.2
Extended Diesel Range Organics	U	2.8	mg/Kgdrywt	1	2.5	2.8	0.66
o-Terphenyl		71.2	%				

00 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-7DL2
Client ID: 277-0021
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10299.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 87.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		300	mg/Kgdrywt	10	5	56.	12.
Extended Diesel Range Organics		89	mg/Kgdrywt	10	2.5	28.	6.6
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

nelac
Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-8
Client ID: 277-0022
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10260.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 16-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 83.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		33	mg/Kgdrywt	1	5	5.5	1.2
Extended Diesel Range Organics	U	2.8	mg/Kgdrywt	1	2.5	2.8	0.65
o-Terphenyl		70.7	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0036-9DL2
Client ID: 277-0024
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10300.D

Sample Date: 10-DEC-15
Received Date: 12-DEC-15
Extract Date: 14-DEC-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG176038

Analysis Date: 17-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 81.
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		12000	mg/Kgdrywt	500	5	3000	680
Extended Diesel Range Organics		3200	mg/Kgdrywt	500	2.5	1500	360
o-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0109-1DL2
Client ID: 277-0034
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10384.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 17-DEC-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG176215

Analysis Date: 23-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		10000	ug/L	10	50	480	91.
Extended Diesel Range Organics		1700	ug/L	10	25	240	81.
O-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0109-2DL
Client ID: 277-0035
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10335.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 17-DEC-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG176215

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		180000	ug/L	100	50	4700	900
Extended Diesel Range Organics		23000	ug/L	100	25	2400	790
O-Terphenyl	D	0.00	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0109-3
Client ID: 277-0030
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10336.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 17-DEC-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG176215

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		160	ug/L	1	50	50.	9.5
Extended Diesel Range Organics		40.	ug/L	1	25	25.	8.4
O-Terphenyl		78.0	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0109-4
Client ID: 277-0036
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10337.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 17-DEC-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG176215

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		120	ug/L	1	50	47.	9.0
Extended Diesel Range Organics		40.	ug/L	1	25	24.	7.9
O-Terphenyl		64.6	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Lockheed Martin Technology
Lab ID: TI0109-5
Client ID: 277-0037
Project: Lockheed Martin SERAS Proj
SDG: 0277-1
Lab File ID: AIL10341.D

Sample Date: 14-DEC-15
Received Date: 16-DEC-15
Extract Date: 17-DEC-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG176215

Analysis Date: 21-DEC-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: AQ
% Solids: NA
Report Date: 28-DEC-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Diesel Range Organics		87.	ug/L	1	50	47.	9.0
Extended Diesel Range Organics		26.	ug/L	1	25	24.	7.9
O-Terphenyl		74.1	%				

0 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

USEPA
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220204

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121515-104648-0016
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

T10109/T10110

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0030	TF-34-DISCH	GRO by Method 8015	Ground Water	12/14/2015	6	40 ml VOA	HCl 4 C	Y
	277-0030	TF-34-DISCH	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	6	1 liter amber	HCl 4 C	Y
	277-0033	AA-GW-03	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0036	POND DISCH	GRO by Method 8015	Surface Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0036	POND DISCH	DRO/ORO by Method 8015, 8100	Surface Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0037	FD-04	GRO by Method 8015	Surface Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0037	FD-04	DRO/ORO by Method 8015, 8100	Surface Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0038	TB-01	GRO by Method 8015	Blank	11/24/2015	2	40 ml VOA	HCl 4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANAL 315	CM SOLAS	12/15/15 12:00		12/16/15 0930	

000016

USEPA
DateShipped: 12/3/2015
CarrierName: FedEx
AirbillNo: 859483220432

519763

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120315-172318-0005
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0002	LOR-06	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0002	LOR-06	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0003	LOR-12	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0003	LOR-12	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0004	LOR-09	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0004	LOR-09	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0005	FD-01	GRO by Method 8015	Soil	12/3/2015	2	40 mL VOA	MeOH/4C	N
	277-0005	FD-01	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N
	277-0001	P-04-01	GRO by Method 8015	Soil	12/3/2015	1	40 mL VOA	MeOH/4C	N
	277-0001	P-04-01	DRO/ORO by Method 8015, 8100	Soil	12/3/2015	1	4 oz Jar	4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AL/ANALYSIS	LM SERAS	12/3/15 1630		12/4/15 0920	

10000

USEPA
DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220064

519891

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120815-183003-0010
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0011	TF-11-05	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0011	TF-11-05	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0012	TF-12-01	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0012	TF-12-01	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0013	TF-12-05	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0013	TF-12-05	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0014	FD-02	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0014	FD-02	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0015	TF-12-06	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0015	TF-12-06	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0016	WIL-20	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0016	WIL-20	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0017	WIL-35	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0017	WIL-35	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0018	WIL-14	GRO by Method 8015	Soil	12/8/2015	2	40 mL VOA	MeOH/4C	N
	277-0018	WIL-14	DRO/ORO by Method 8015, 8100	Soil	12/8/2015	1	4 oz Jar	4 C	N
	277-0006	WIL-30	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0006	WIL-30	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0007	WIL-29	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LMS/ERAS	12/8/15 1730		0930 12/9/15	

00001

USEPA
DateShipped: 12/8/2015
CarrierName: FedEx
AirbillNo: 859483220064

S19891

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-120815-183003-0010
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0007	WIL-29	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0008	WIL-05	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0008	WIL-05	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0009	WIL-25	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0009	WIL-25	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N
	277-0010	TF-11-03	GRO by Method 8015	Soil	12/7/2015	2	40 mL VOA	MeOH/4C	N
	277-0010	TF-11-03	DRO/ORO by Method 8015, 8100	Soil	12/7/2015	1	4 oz Jar	4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LM SERAS	12/8/15 1730		0950 12/9/15	

600013

USEPA
DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220307

T10036/T10037

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121115-163344-0015
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0025	TF-34-01	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0025	TF-34-01	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0026	LOR-18	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0026	LOR-18	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0027	FD-03	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0027	FD-03	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0028	LOR-25A	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0028	LOR-25A	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0029	LOR-25A	GRO by Method 8015	Soil	12/11/2015	2	40 mL VOA	MeOH/4C	N
	277-0029	LOR-25A	DRO/ORO by Method 8015, 8100	Soil	12/11/2015	1	4 oz Jar	4 C	N
	277-0019	P-03-SAND	GRO by Method 8015	Soil	12/9/2015	2	40 mL VOA	MeOH/4C	N
	277-0019	P-03-SAND	DRO/ORO by Method 8015, 8100	Soil	12/9/2015	1	4 oz Jar	4 C	N
	277-0021	WIL-AA-10	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0021	WIL-AA-10	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N
	277-0022	WIL-AA-11	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0022	WIL-AA-11	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N
	277-0024	WIL-41	GRO by Method 8015	Soil	12/10/2015	2	40 mL VOA	MeOH/4C	N
	277-0024	WIL-41	DRO/ORO by Method 8015, 8100	Soil	12/10/2015	1	4 oz Jar	4 C	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LM SOERAS	12/11/15 15:40	FedEx		
	FedEx		A. Drewer, Katahdin	12/12/15 09:05	

000014

USEPA
DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220189

CHAIN OF CUSTODY RECORD
Site #: 277
Contact Name: Misty Barkley
Contact Phone: 732-321-4200

No: 6-121515-123522-0023
Cooler #:
Lab: Katahdin Laboratory
Lab Phone: 207-874-2400

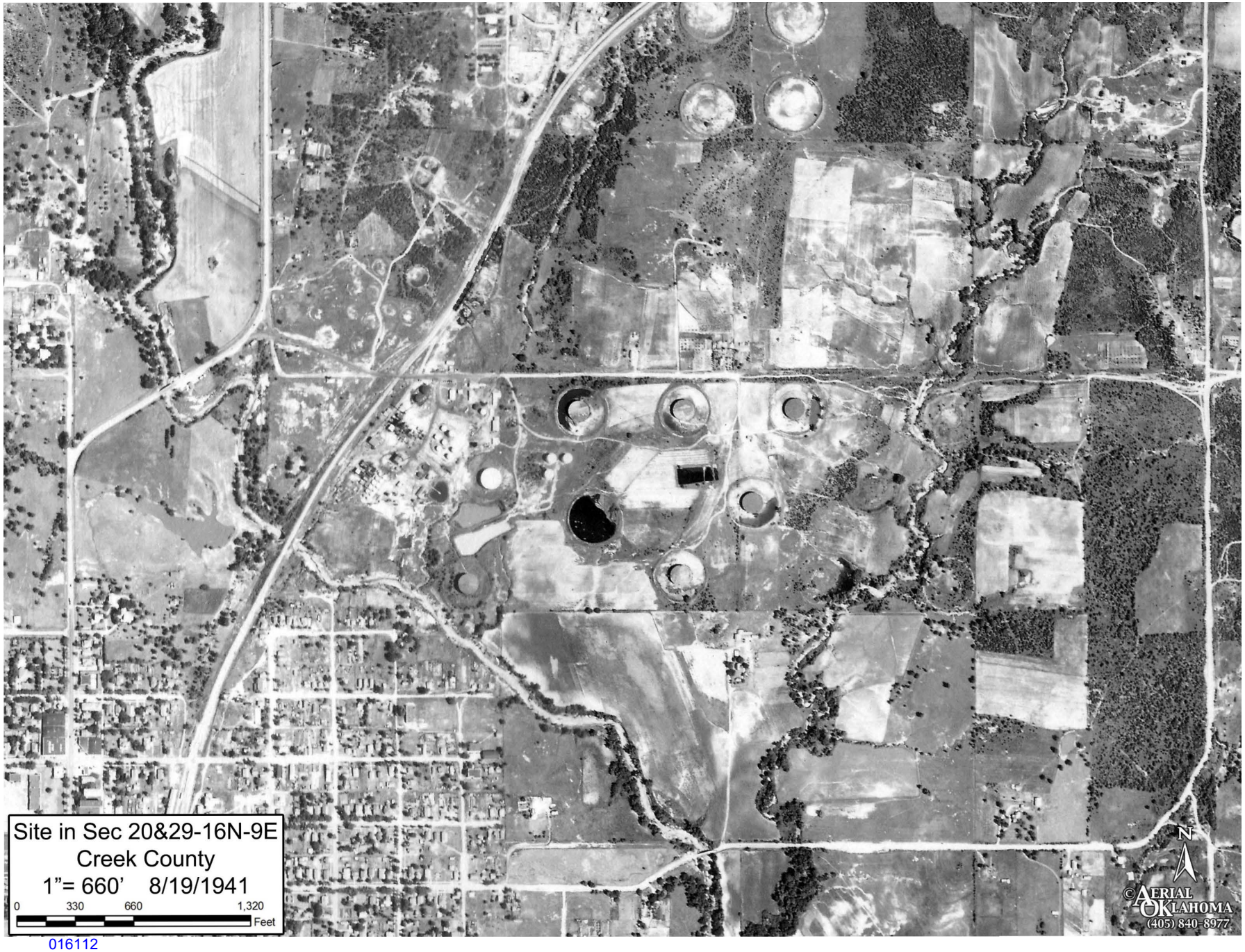
TI 0109 / TI0110

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	277-0034	TF-34-01	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0034	TF-34-01	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0035	LOR-18	GRO by Method 8015	Ground Water	12/14/2015	2	40 ml VOA	HCl 4 C	N
	277-0035	LOR-18	DRO/ORO by Method 8015, 8100	Ground Water	12/14/2015	2	1 liter amber	HCl 4 C	N
	277-0043	TB-06	GRO by Method 8015	Blank	12/15/2015	4	40 ml VOA	HCl 4 C	N

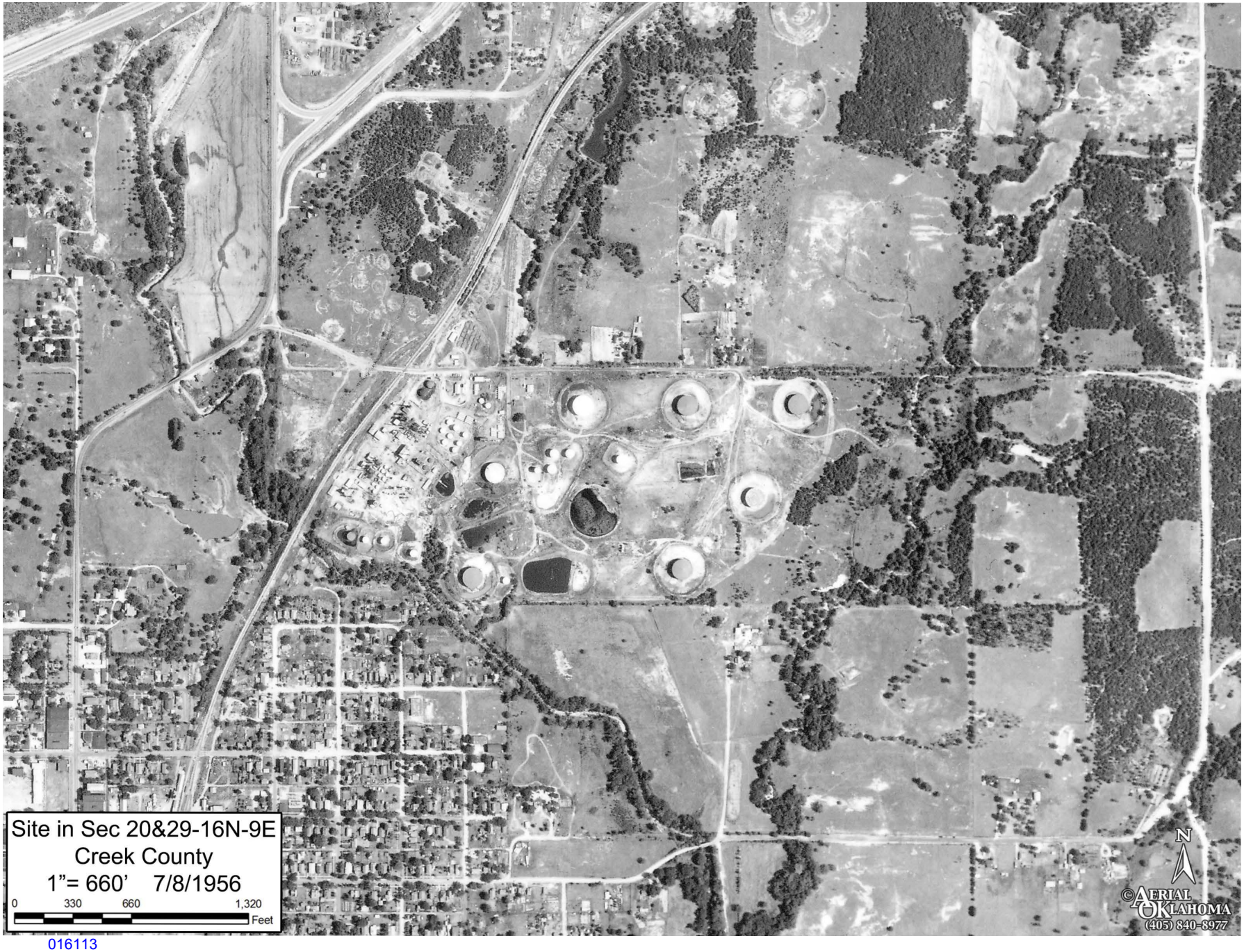
Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	LMS/ERAS	12/15/15 12:30		12/16/15/0930	

0000015


Site in Sec 20&29-16N-9E
Creek County
1"= 660' 8/19/1941
0
330
660
1,320
Feet
N
©AERIAL OKLAHOMA
(405) 840-8977

016112


Site in Sec 20&29-16N-9E
Creek County
1"= 660' 7/8/1956
0 330 660 1,320
Feet
N
©AERIAL OKLAHOMA
(405) 840-8977

016113

APPENDIX O

Test Pit Field Notes

Collected by George Prince, USEPA/ERT

September 23, 2015

Wilcox Oil Company Superfund Site

9/23/15 W:leak/Lorraine

Test Pits

TP#1 96° 22' 40.610" W TANK 8
35°50 23.835" N

0-1.7' Overburden mod ORANGE SAND
1.7-4.0' Weathered Rock HARD

TP-2 NO ODOR - Tone 0:1 TANK 8
0-3' Brown Silty SAND
3.4-6.6 ~~3.4'~~ Mottled Org. Brown Clay

TP-3 35° 50' 26.899" N
Faint ODOR 96° 22' 46.937 W TANK
Undefined
0-1' Brown Clayey SAND
1'-2.3' ~~Hard Grey Clay~~ O.B. ~~Silty~~ Silty Clay
>2.3 Very Hard Grey Clay

TP4 35°50' 26.996'N NO ODOR
96° 22' 42.665 W
0-3.7 Dk. Brown SANDY Clay (Some Friable SANDSTONE)
>3.7 Grey SANDSTONE or Rock

NO ODOR 35° 50° 25.336N
96° 22° 41.595 W
0-1.5' Brown ORG Fine SAND
1.5'-6.1' ~~Grey SANDSTONE Hard~~
↳ DK. Brown SANDY Clay
>6.1 Grey SANDSTONE HARD

TP-5 Near SW Corner Setting Pond Fence
35° 50 27.569N
96 22 46.098 W
0-1.8' Brown med SAND
5.4 Mottled O.B. SANDY CLAY Hard
>5.4 Grey HARD Fine Sandy Clay
@ 2.2' Black Line (TAR??) Fa layer

TP 6 ≈ ℄ Fence around Setting Areas
35 50 28.387 N
96 22 46.120 W
0-0.4-1.0' Limited TAR/0:1 Below Grass
0.4-1.8 Brown Organic SAND
1.8 3.6 Mottled DK Grey Orange Brown SAND
>3.6-7.5 HARD Lt Grey SAND STONE

TP-7 Tank 7 S

35° 50' 31.383" N
96° 22' 51.894" W

0-1.0 Brown SAND
1.0-2.0' O.B mottled SANDY clay
5.5' Layer mottled Grey SANDY CLAY
> 5.5' Hard Grey clay

TP-8 TANK 7 N

35° 50' 32.860" N
96° 22' 52.978 W

0-2.0' Brown Med SAND
2-3.5' mottled O.B Clay
3.5-7.0 lt. Grey O.B Clay mottled
7.0-7.4 lt. Grey SANDY CLAY HARD
NOT as Hard as Prev. Soil Clay
4.0' WATER Entering hole

TP-9 S. END H-Line

0-2 Brown SAND
2-5' O.B. SAND some Clay sandy
5-7.5 mottled O.B. Grey Clay Not
>7.5 Harder Grey Sandy clay Hard

35 50 21.320 N
96 22 48.766 W

TP-10 35 50 21.069 N S. END Half F
96 22 51.243 W

Hole is DAMP

0-2.5 Brown SAND
2.5-9.5' Soft mottled Sandy Clay
Orange Brown

TP-11 Line D Hole is DAMP
9.5'
35 50 22.041 N
96 22 54.349 W

0-0.8 Brown Agri. SAND
0.8-3.5' Grey Clayey Fine SAND } Black Org. Soil moist Soft
3.5-9.5' O.B. Sandy Clay

Appendix P
CPT Logs
Wilcox Oil Company Site

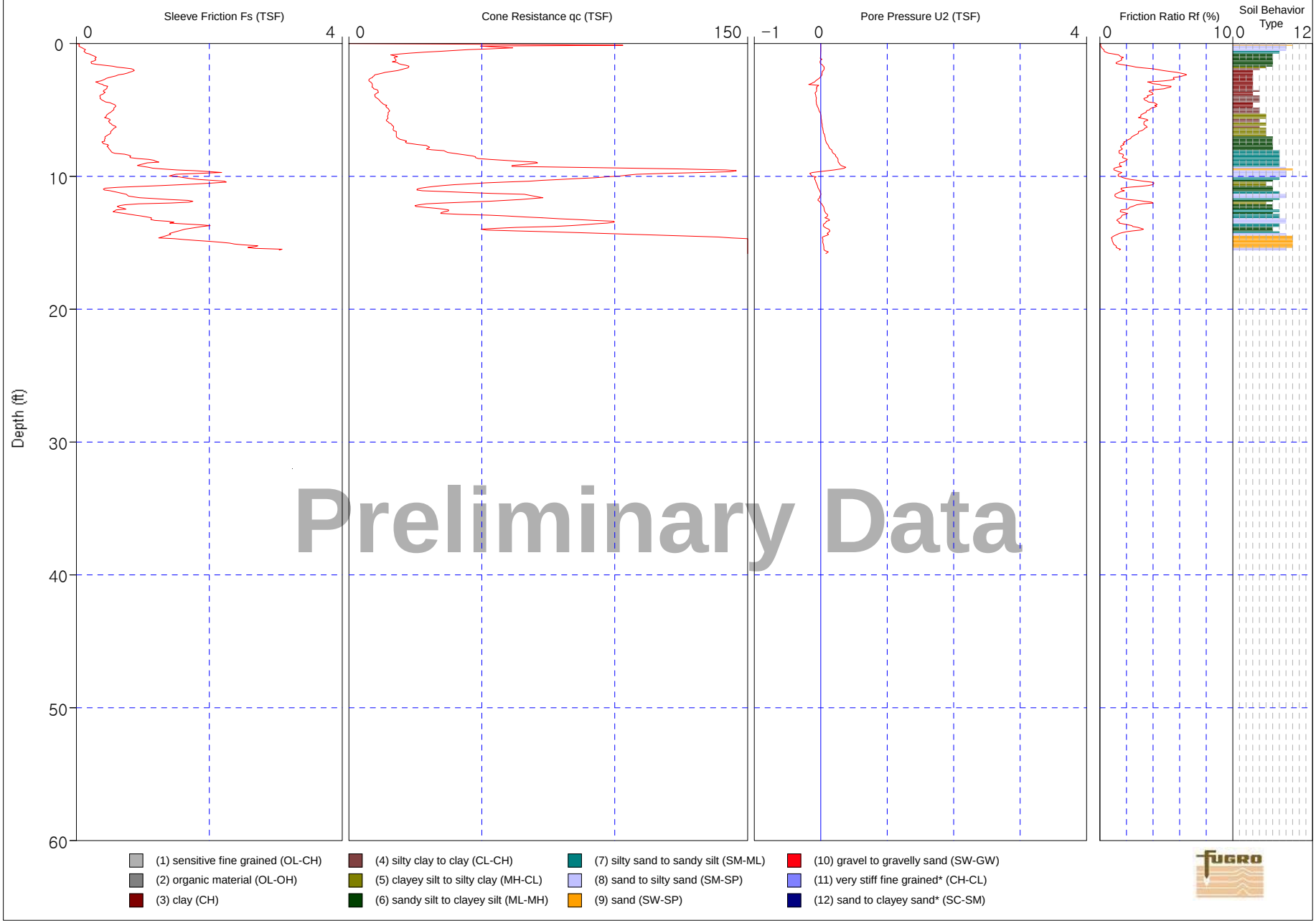
Table of Contents

LOR-01 2
LOR-02 3
LOR-03 4
LOR-04 5
LOR-05 6
LOR-06 7
LOR-07 8
LOR-08 9
LOR-09 10
LOR-10 11
LOR-11 12
LOR-12 13
LOR-13 14
LOR-14 15

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-01
Date: 01-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



Robertson et al. 1986 *Overconsolidated or Cemented

016119

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-02
Date: 01-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859

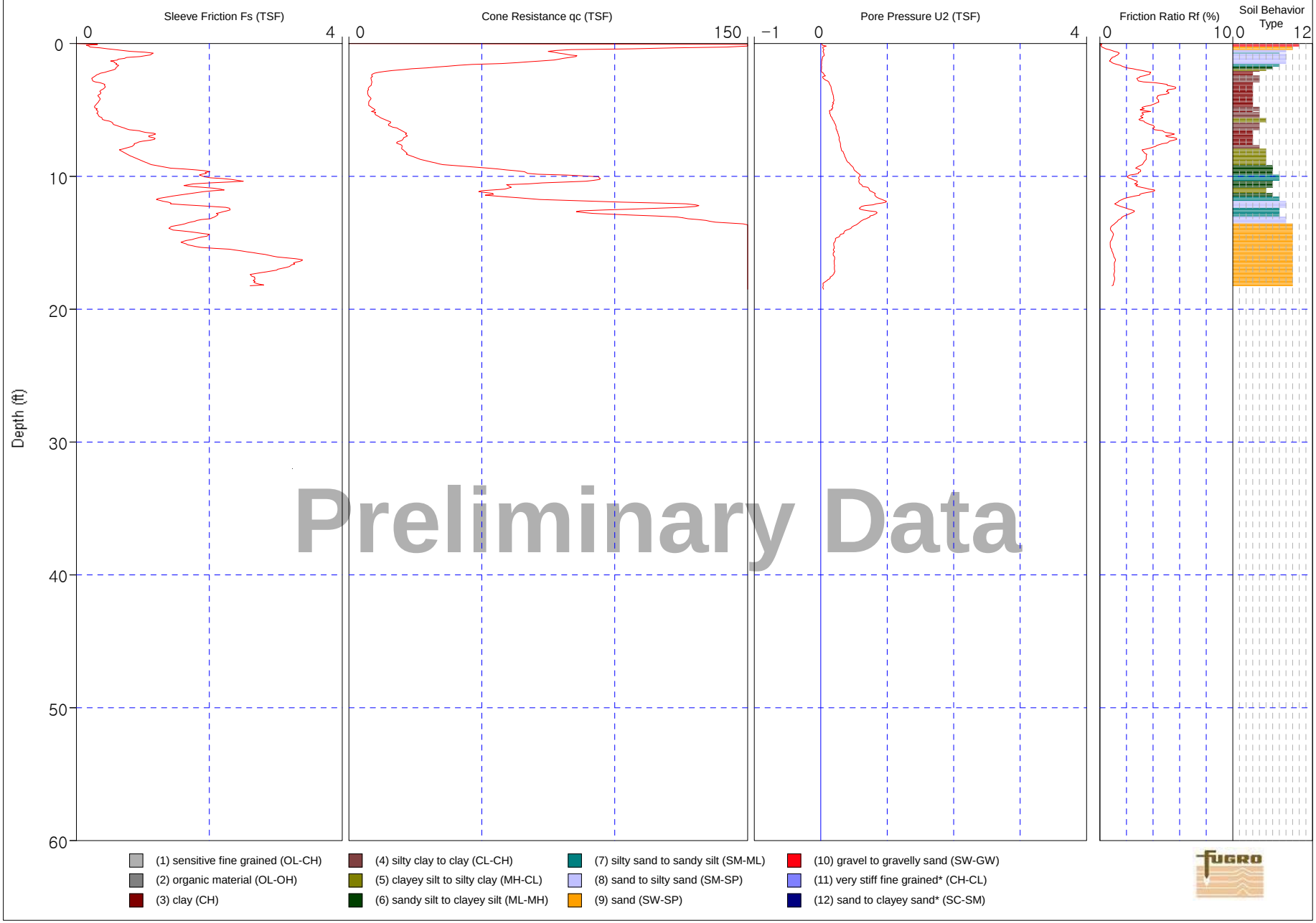
Robertson et al. 1986 *Overconsolidated or Cemented

016120

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-03
Date: 01-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



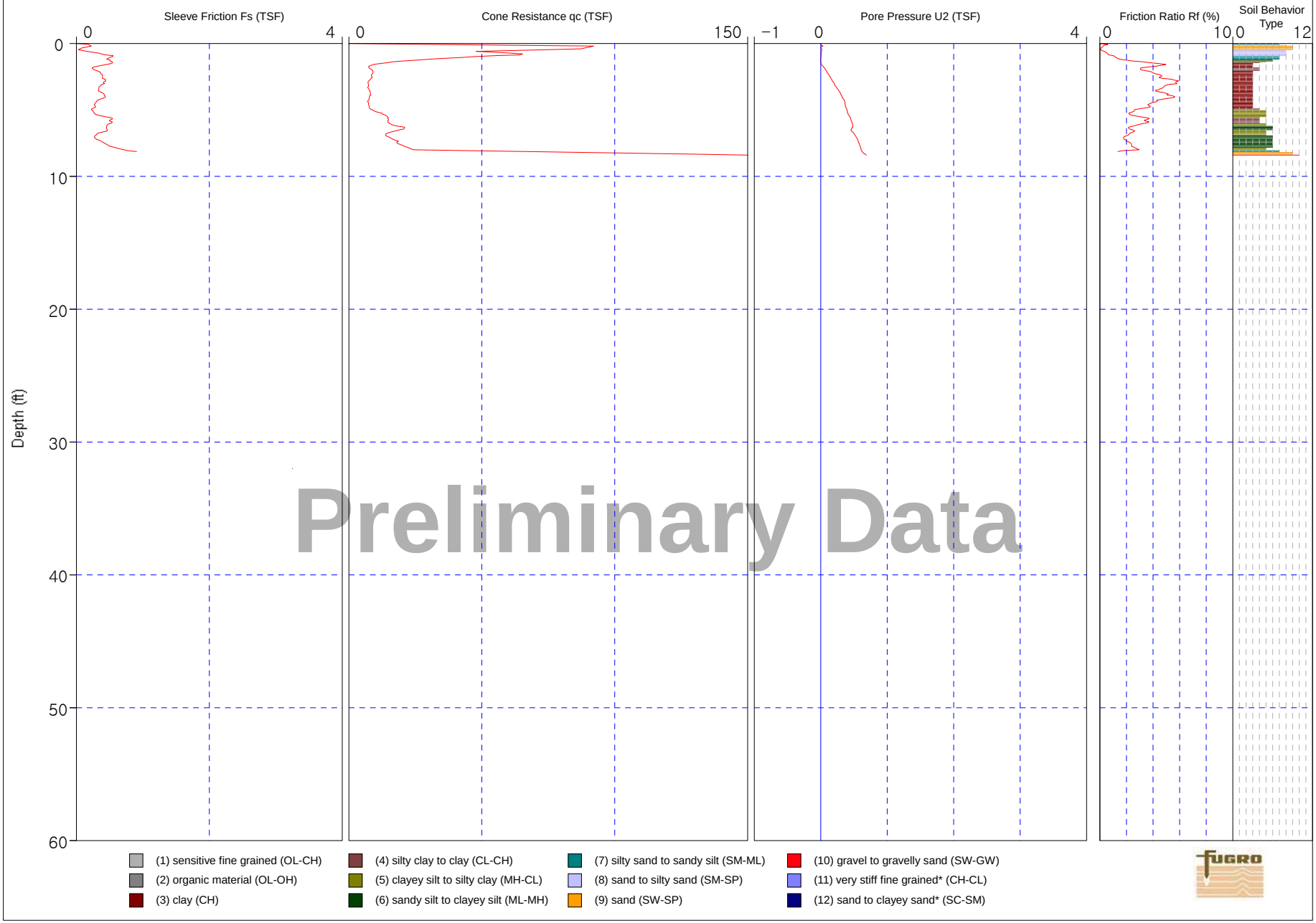
Robertson et al. 1986 *Overconsolidated or Cemented

016121

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-04
Date: 01-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



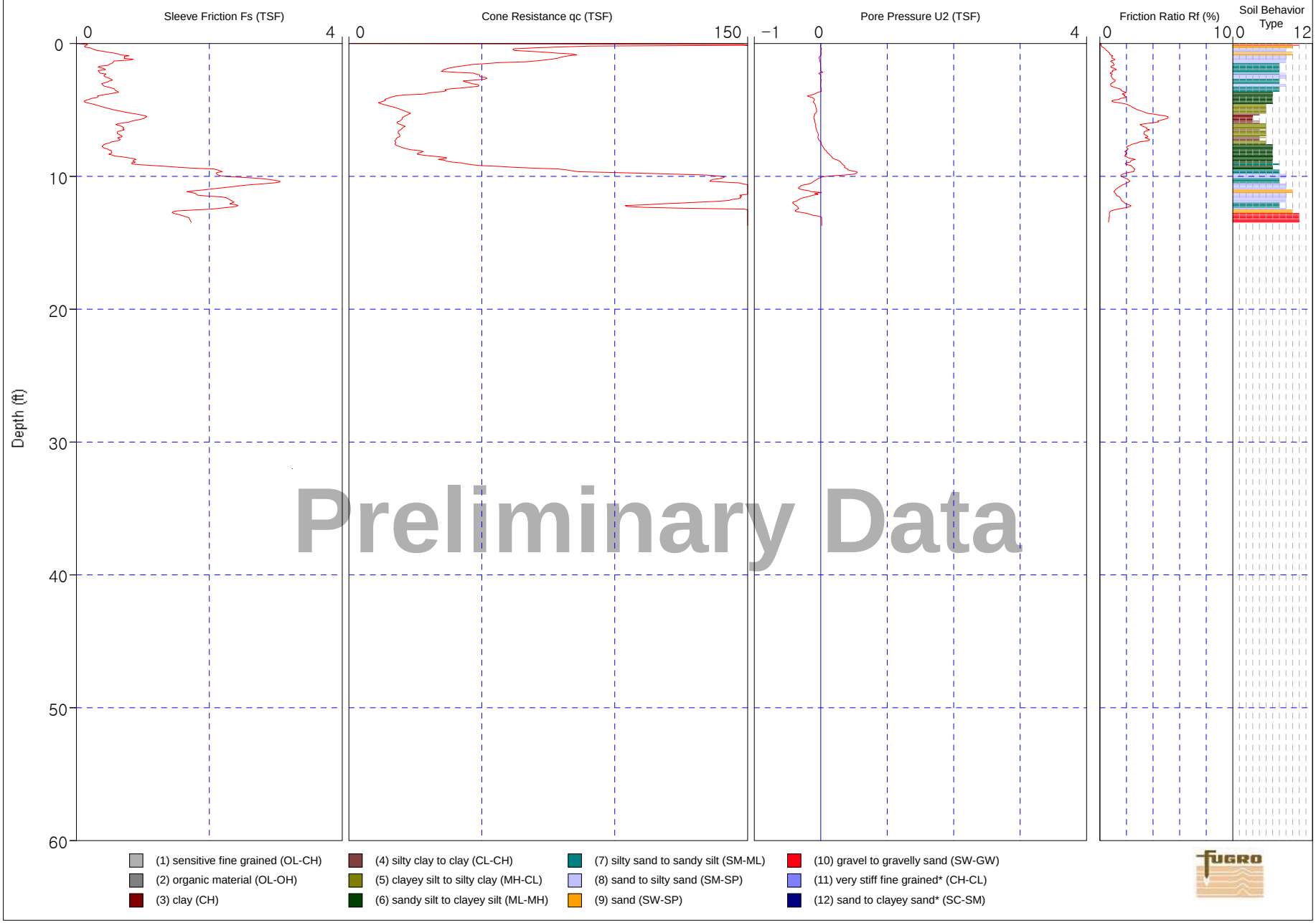
Robertson et al. 1986 *Overconsolidated or Cemented

016122

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-05
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



Robertson et al. 1986 *Overconsolidated or Cemented

016123

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-06
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859

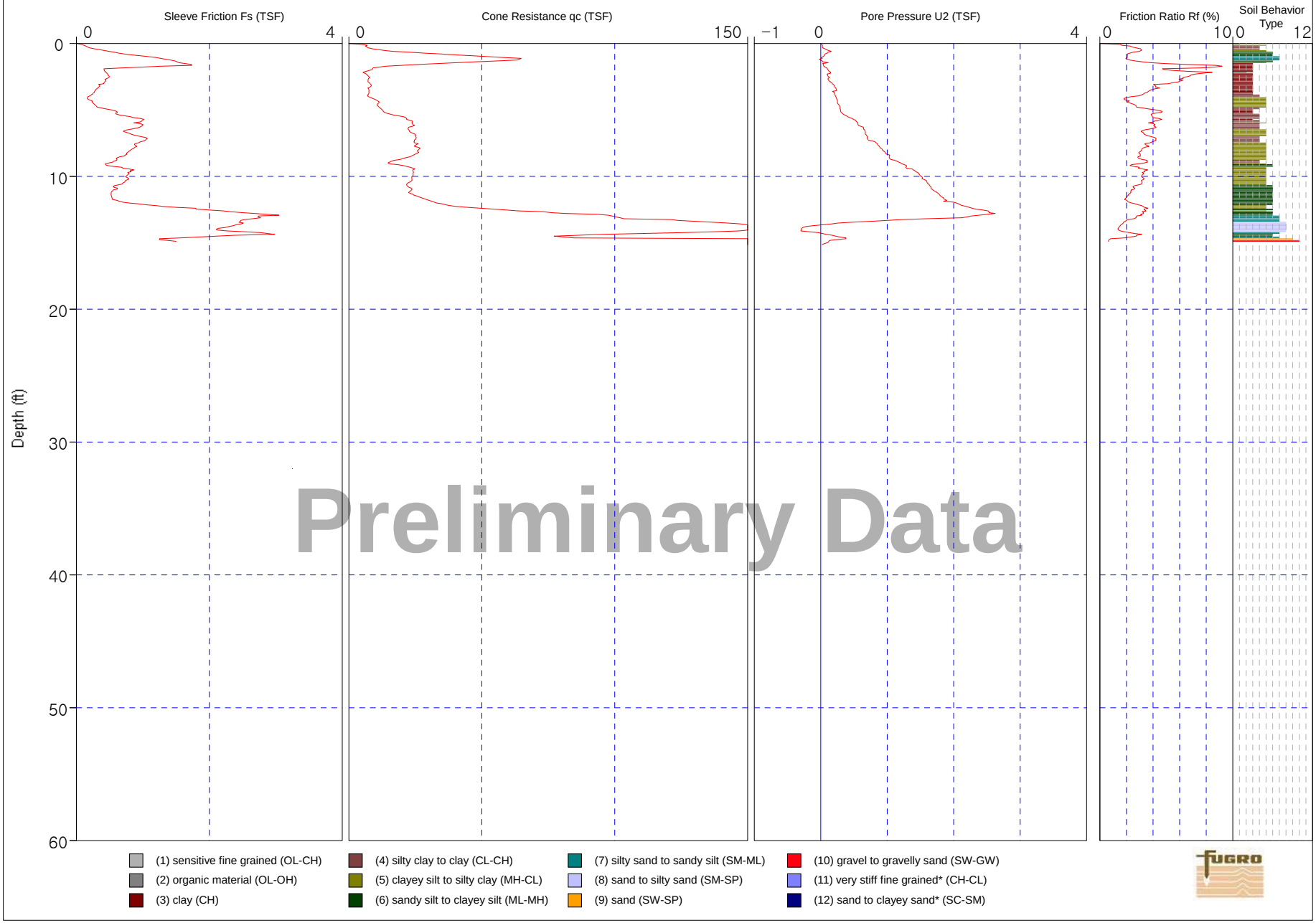
Robertson et al. 1986 *Overconsolidated or Cemented

016124

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-07
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



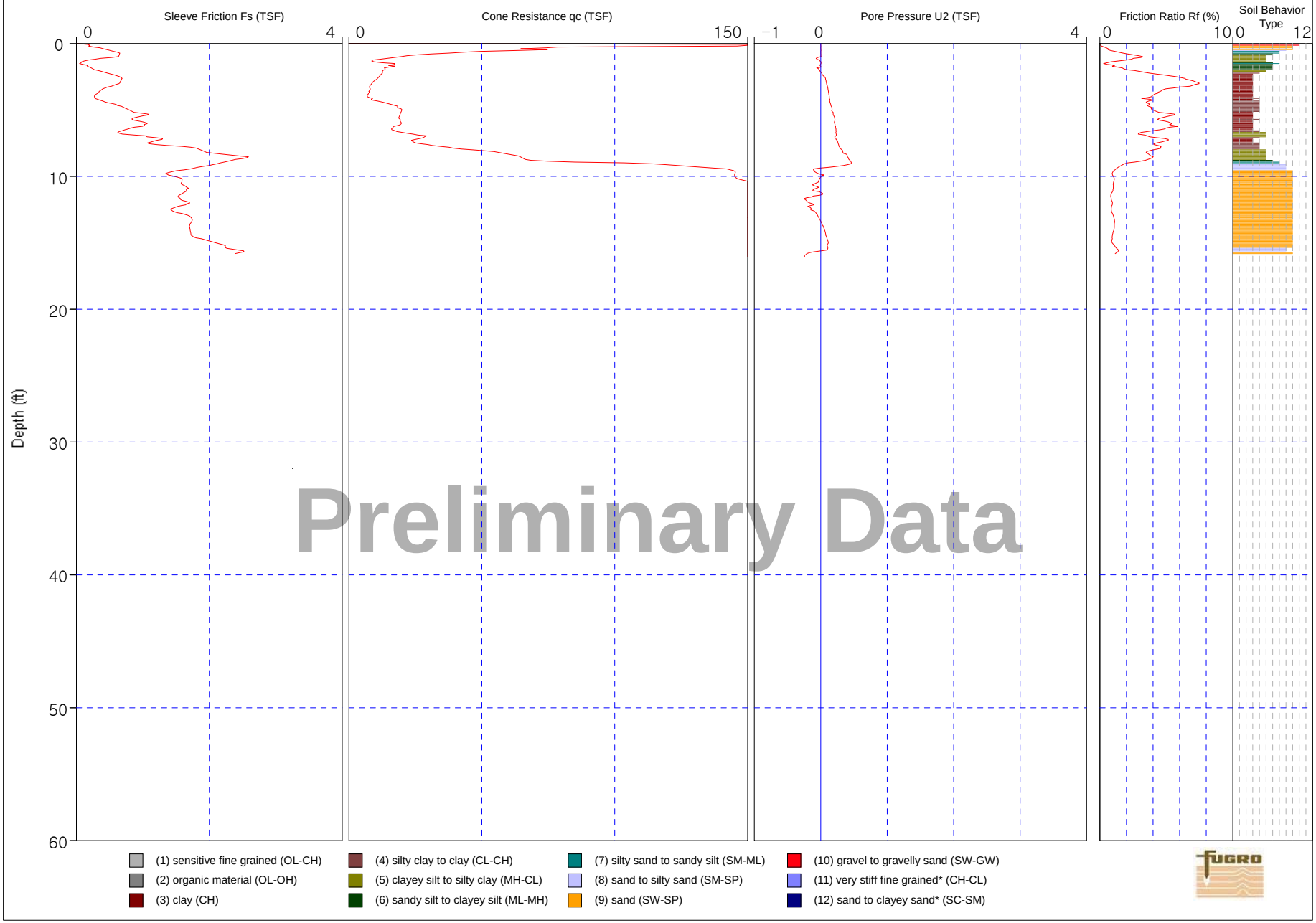
Robertson et al. 1986 *Overconsolidated or Cemented

016125

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-08
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



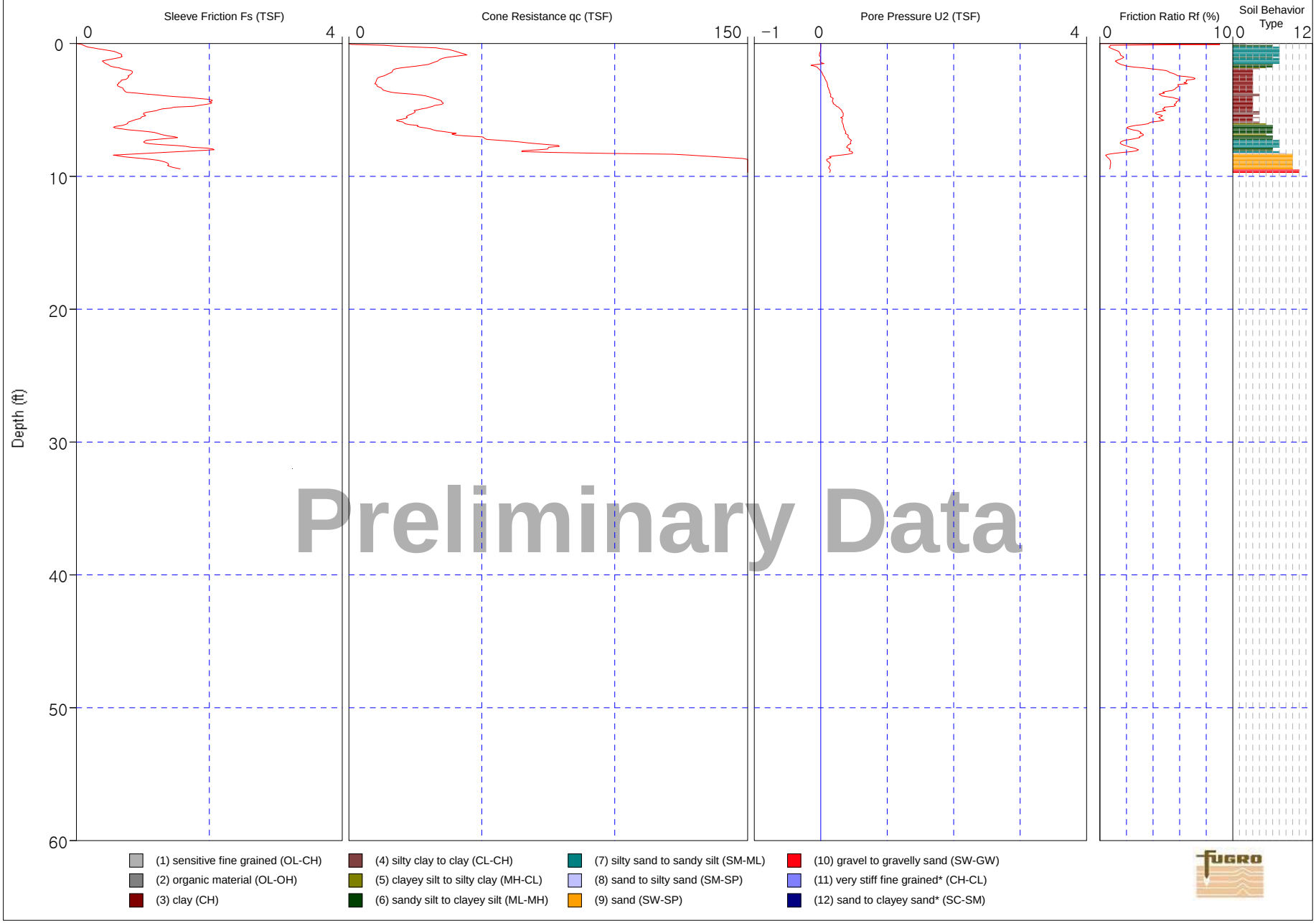
Robertson et al. 1986 *Overconsolidated or Cemented

016126

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-09
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



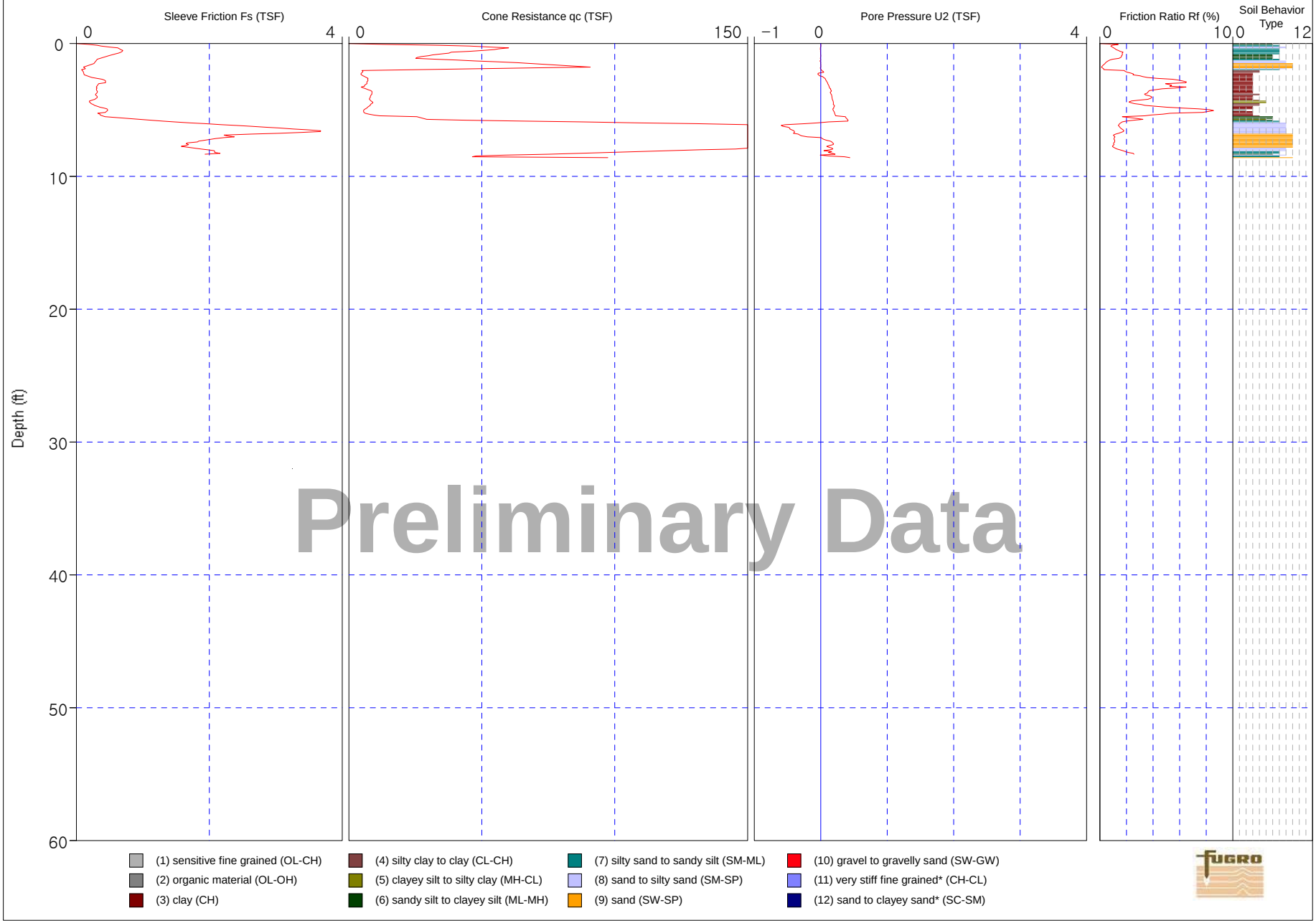
Robertson et al. 1986 *Overconsolidated or Cemented

016127

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-10
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



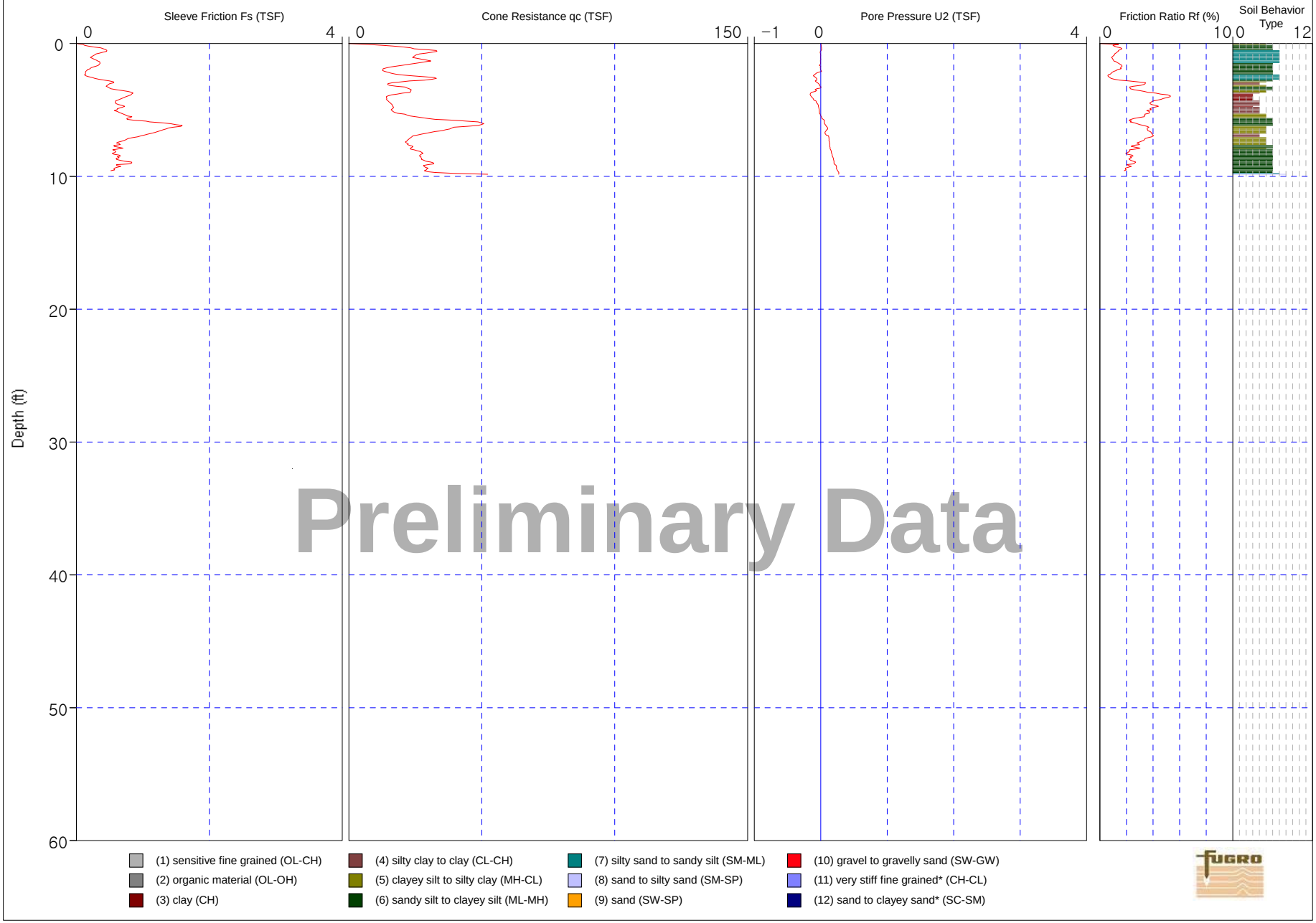
Robertson et al. 1986 *Overconsolidated or Cemented

016128

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-11
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



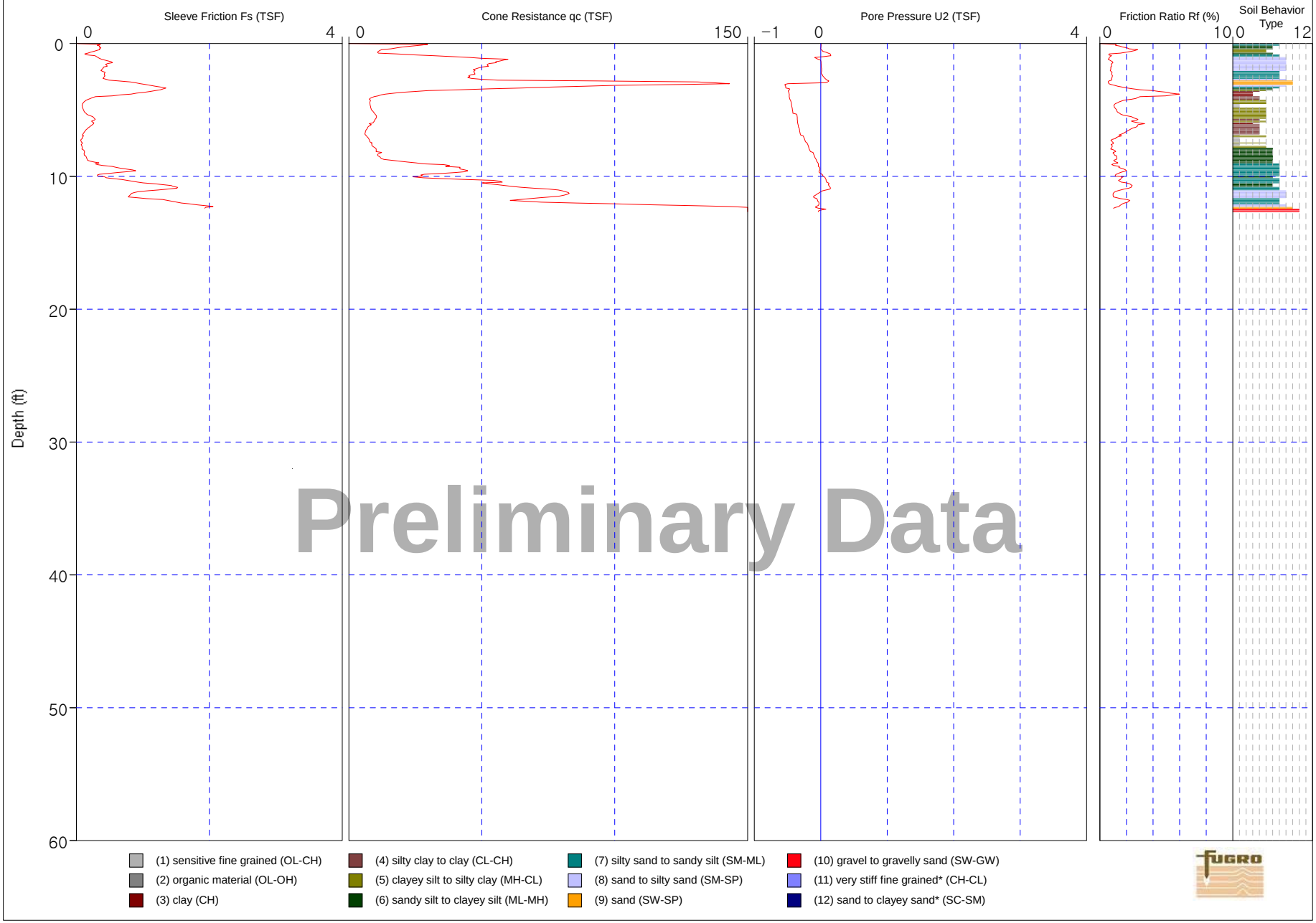
Robertson et al. 1986 *Overconsolidated or Cemented

016129

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-12
Date: 02-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



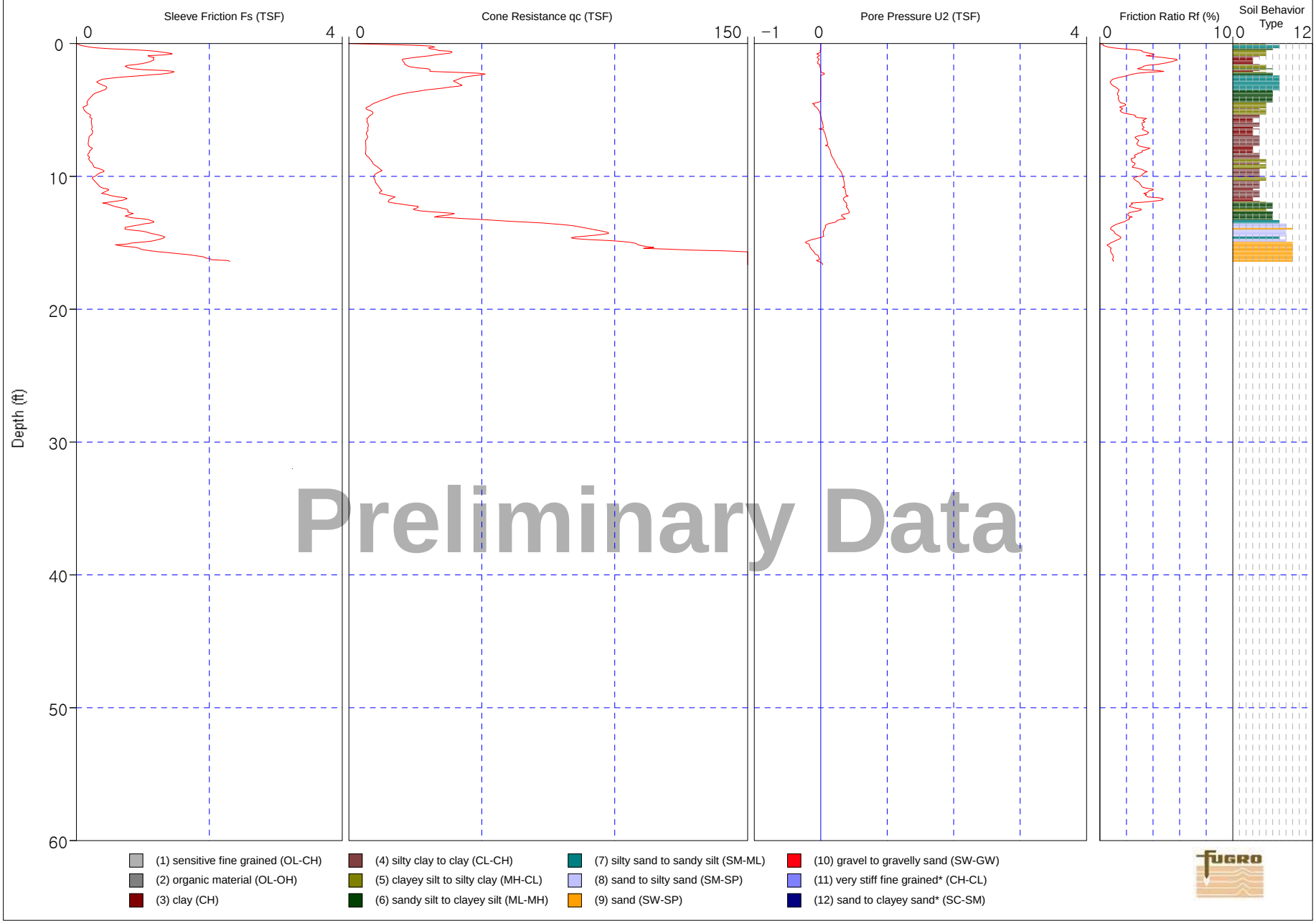
Robertson et al. 1986 *Overconsolidated or Cemented

016130

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow,Oklahoma

CPT Number: LOR-13
Date: 03-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



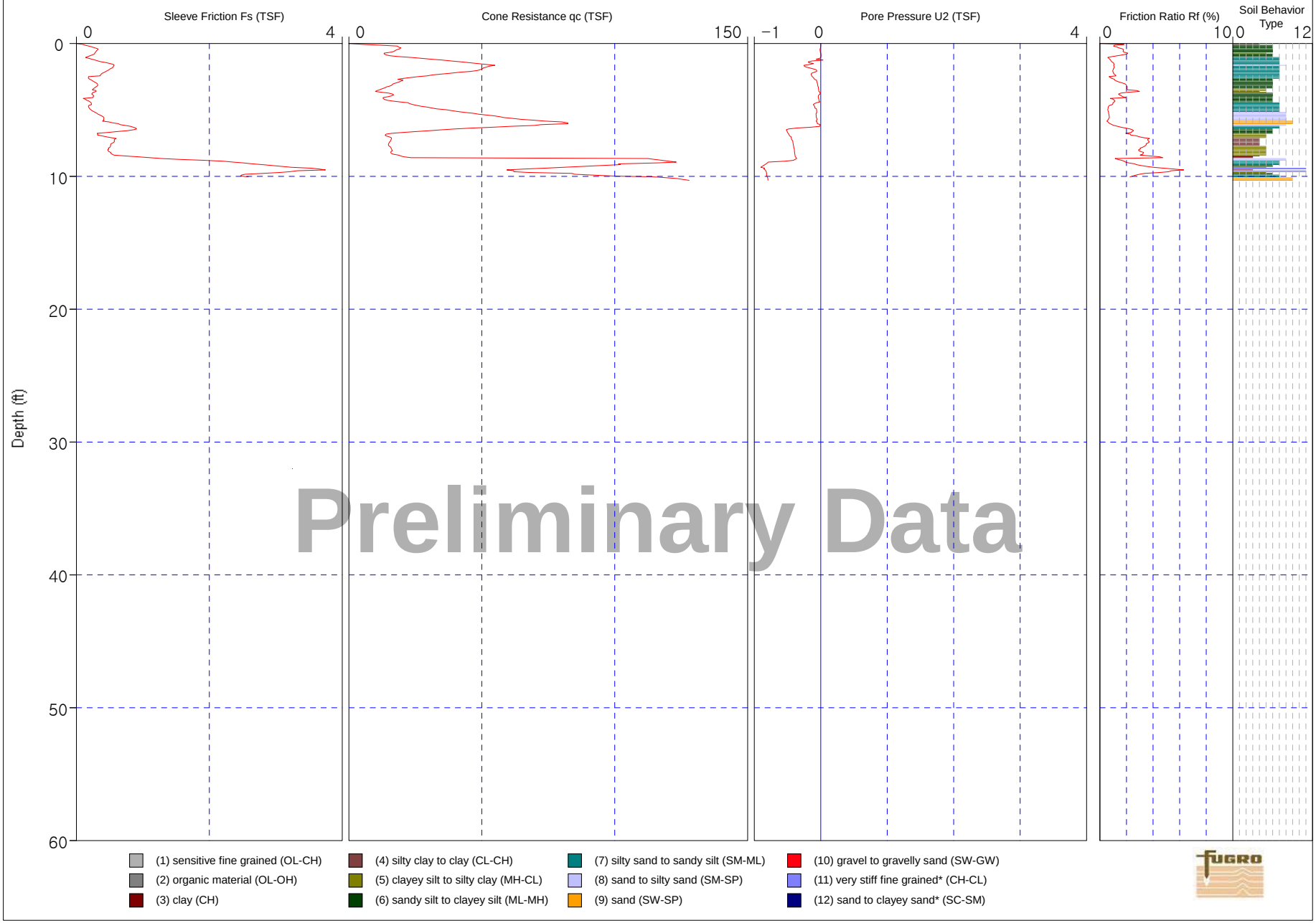
Robertson et al. 1986 *Overconsolidated or Cemented

016131

Job Number: 04.1915-0079
Operator: Mitchell Parras
Location: Bristow, OK

CPT Number: LOR-14
Date: 03-Dec-2015
Elevation: 0.00

Coordinates:
Cone Number: CP15-CF75PB7SN2-P1E1 2859



Robertson et al. 1986 *Overconsolidated or Cemented

016132